



Lexan* Resin 955

Americas: COMMERCIAL

Lexan* 955 Polycarbonate (PC) resin is a non-filled, injection moldable grade. This non-chlorinated, non-brominated flame retardant PC has an UL-94 V0 rating and is available in various opaque color options. Lexan 955 resin is of high viscosity for various applications.

Property

Tensile Stress, yld, Type I, 50 mm/min 62 MPa ASTM D 638 Tensile Stress, brk, Type I, 50 mm/min 65 MPa ASTM D 638 Tensile Strain, jud, Type I, 50 mm/min 64 % ASTM D 638 Tensile Strain, jud, Type I, 50 mm/min 125 % ASTM D 638 Tensile Strain, brk, Type I, 50 mm/min 125 % ASTM D 638 Tensile Strain, jud, Type I, 50 mm/min 126 % ASTM D 638 Tensile Modulus, 50 mm/min 1270 MPa ASTM D 638 Tensile Strain, jud, 1,3 mm/min, 50 mm span 101 MPa ASTM D 638 Tensile Strain, jud, 1,3 mm/min, 50 mm span 101 MPa ASTM D 790 IMPACT Value Unit Standard Izod Impact, notched, 23°C 801 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C 73 J ASTM D 3763 THERMAL Value Unit Standard Vicat Softening Temp, Rate B/50 143 °C ASTM D 1525 HDT, 0.45 MPa, 3.2 mm, unannealed 137 °C ASTM D 648 HDT, 1.82 MPa, 3.2 mm, unannealed 137 °C ASTM D 648 HDT, 1.82 MPa, 3.2 mm, unannealed 126 °C ASTM D 648 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM D 648 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Mech w/mpact 120 °C UL 746B Relative Temp Index, Mech w/mpact 120 °C UL 746B Relative Temp Index, Mech w/mpact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120 °C UL 746B Relative Temp Index, Mech w/m impact 120	TYPICAL PROPERTIES (1)			
Tensile Stress, brk, Type I, 50 mm/min Tensile Strain, Jvd, Type I, 50 mm/min 1 6.4 % ASTM D 638 Tensile Strain, Jvd, Type I, 50 mm/min 1 6.4 % ASTM D 638 Tensile Strain, brk, Type I, 50 mm/min 1 25 % ASTM D 638 Tensile Strain, brk, Type I, 50 mm/min 1 2270 MPa ASTM D 638 Tensile Modulus, 50 mm/min 1 2270 MPa ASTM D 638 Tensile Modulus, 50 mm/min 1 2270 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 1 101 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 1 2340 MPa ASTM D 790 IMPACT Value Unit Standard Izod Impact, notched, 23°C 8 801 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C 7 3 J ASTM D 3763 THERMAL Vicat Softening Temp, Rate B/50 1 43 °C ASTM D 1525 HDT, 0.45 MPa, 3.2 mm, unannealed 1 137 °C ASTM D 1525 HDT, 0.45 MPa, 3.2 mm, unannealed 1 137 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 1 126 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 1 126 °C ASTM D 648 Eletive Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 130 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, Mech wimpact 1 120 °C UL 746B Relative Temp Index, M	MECHANICAL	Value	Unit	Standard
Tensile Strain, yld, Type I, 50 mm/min Tensile Strain, brk, Type I, 50 mm/min 125 % ASTM D 638 Tensile Strain, brk, Type I, 50 mm/min 126 % ASTM D 638 Flexural Strain, brk, Type I, 50 mm/min 127 MPa ASTM D 638 Flexural Strain, brk, Type I, 50 mm/min 101 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 101 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 2340 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 2340 MPa ASTM D 790 IMPACT Value Unit Standard Izod Impact, notched, 23°C 801 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C 73 J ASTM D 3763 THERMAL Value Unit Standard Vical Softening Temp, Rate B/50 143 °C ASTM D 1525 HDT, 0.45 MPa, 3.2 mm, unannealed 137 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 137 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D 648 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard ACTE, Code UL 746A High Nortage, Arc Track Rate (PLC) 12 PLC Code 13 PLC Code 14 PLC Code 15 PLC Code 16 PLC Code 17 PLC Code 17 PLC Code 17 PLC Code 18 PLC Code	Tensile Stress, yld, Type I, 50 mm/min	62	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min 125 % ASTM D 638 Tensile Modulus, 50 mm/min 2270 MPa ASTM D 638 Flexural Stress, yld, 1.3 mm/min, 50 mm span 101 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 2340 MPa ASTM D 790 IMPACT Value Unit Standard Izod Impact, notched, 23°C 801 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C 73 J ASTM D 3763 THERMAL Value Unit Standard Vicat Softening Temp, Rate B/50 143 °C ASTM D 648 HDT, 0.45 MPa, 3.2 mm, unannealed 137 °C ASTM D 648 OTE, 40°C to 40°C, flow 6.66E-05 1/°C ASTM D 648 OTE, 40°C to 40°C, xllow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Mech wimpact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Sp	Tensile Stress, brk, Type I, 50 mm/min	65	MPa	ASTM D 638
Tensile Modulus, 50 mm/min 2270 MPa ASTM D 638	Tensile Strain, yld, Type I, 50 mm/min	6.4	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span 101 MPa ASTM D 790	Tensile Strain, brk, Type I, 50 mm/min	125	%	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span 2340	Tensile Modulus, 50 mm/min	2270	MPa	ASTM D 638
MPACT Value Unit Standard Izod Impact, notched, 23°C 801 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C 73 J ASTM D 3763 THERMAL Value Unit Standard Value Unit Value U	Flexural Stress, yld, 1.3 mm/min, 50 mm span	101	MPa	ASTM D 790
Izod Impact, notched, 23°C 801	Flexural Modulus, 1.3 mm/min, 50 mm span	2340	MPa	ASTM D 790
Instrumented Impact Total Energy, 23°C THERMAL Value Value Value Unit Standard Vicat Softening Temp, Rate B/50 143 °C ASTM D 1525 HDT, 0.45 MPa, 3.2 mm, unannealed 137 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D 648 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM D 648 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 2 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A UL Recognized, 94V-2 Flame Class Rating (3) UL Recognized, 94V-5 Flame Class Rating (3) UL 94 UL Recognized, 94V-5 Flame Class Rating (3) UL 94 UL Recognized, 94V-5 Flame Class Rating (3) UL 94 UL Recognized, 94V-5 Flame Class Rating (3) UL 94 UL Recognized, 94V-5 Flame Class Rating (3) UL 94 UL Recognized, 94V-5 Flame Class Rating (3) In mm IEC 60695-2-12	IMPACT	Value	Unit	Standard
THERMAL Value Unit Standard Vicat Softening Temp, Rate B/50 143 °C ASTM D 1525 HDT, 0.45 MPa, 3.2 mm, unannealed 137 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D 648 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten (PLC)	Izod Impact, notched, 23°C	801	J/m	ASTM D 256
Vicat Softening Temp, Rate B/50 143 °C ASTM D 1525 HDT, 0.45 MPa, 3.2 mm, unannealed 137 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D 648 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard	Instrumented Impact Total Energy, 23°C	73	J	ASTM D 3763
HDT, 0.45 MPa, 3.2 mm, unannealed HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 126 °C ASTM D 648 CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Arc Resistance, Tungsten {PLC} Hot Wire Ignition (PLC) 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} High Ampere Arc Ign, surface {PLC} Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94-5VA Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 0.8 mm UL 94 UL Recognized, 94-5VA Rating (3) 0.9 min IEC 66695-2-12	THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	Vicat Softening Temp, Rate B/50	143	°C	ASTM D 1525
CTE, -40°C to 40°C, flow 6.66E-05 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/o impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard U	HDT, 0.45 MPa, 3.2 mm, unannealed	137	°C	ASTM D 648
CTE, -40°C to 40°C, xflow 6.66E-05 1/°C ASTM E 831 Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94	HDT, 1.82 MPa, 3.2mm, unannealed	126	°C	ASTM D 648
Relative Temp Index, Elec 130 °C UL 746B Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized,	CTE, -40°C to 40°C, flow	6.66E-05	1/°C	ASTM E 831
Relative Temp Index, Mech w/impact 120 °C UL 746B Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 <tr< td=""><td>CTE, -40°C to 40°C, xflow</td><td>6.66E-05</td><td>1/°C</td><td>ASTM E 831</td></tr<>	CTE, -40°C to 40°C, xflow	6.66E-05	1/°C	ASTM E 831
Relative Temp Index, Mech w/o impact 130 °C UL 746B PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94	Relative Temp Index, Elec	130	°C	UL 746B
PHYSICAL Value Unit Standard Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12 <td>Relative Temp Index, Mech w/impact</td> <td>120</td> <td>°C</td> <td>UL 746B</td>	Relative Temp Index, Mech w/impact	120	°C	UL 746B
Specific Gravity 1.19 - ASTM D 792 Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC) 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	Relative Temp Index, Mech w/o impact	130	°C	UL 746B
Mold Shrinkage, flow, 3.2 mm 0.6 - 0.8 % SABIC Method Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC) 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	PHYSICAL	Value	Unit	Standard
Melt Flow Rate, 300°C/1.2 kgf 7 g/10 min ASTM D 1238 ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	Specific Gravity	1.19	-	ASTM D 792
ELECTRICAL Value Unit Standard Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	Mold Shrinkage, flow, 3.2 mm	0.6 - 0.8	%	SABIC Method
Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition {PLC} 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	Melt Flow Rate, 300°C/1.2 kgf	7	g/10 min	ASTM D 1238
Hot Wire Ignition {PLC} 2	ELECTRICAL	Value	Unit	Standard
High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	Arc Resistance, Tungsten {PLC}	7	PLC Code	ASTM D 495
High Ampere Arc Ign, surface {PLC} Comparative Tracking Index (UL) {PLC} FLAME CHARACTERISTICS UL 746A UL Recognized, 94V-2 Flame Class Rating (3) UL Recognized, 94V-0 Flame Class Rating (3) UL Recognized, 94V-5VA Rating (3) UL Recognized, 94-5VA Rating (3) Glow Wire Flammability Index 960°C, passes at 3 PLC Code UL 746A Value Unit Standard UL 94 UL 94 UL 94 UL 94 UL 960695-2-12	Hot Wire Ignition (PLC)	2	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC} PLC Code UL 746A FLAME CHARACTERISTICS Value Unit Standard UL Recognized, 94V-2 Flame Class Rating (3) UL Recognized, 94V-0 Flame Class Rating (3) UL Recognized, 94V-0 Flame Class Rating (3) UL Recognized, 94-5VA Rating (3) UL 94 UL Recognized, 94-5VA Rating (3) Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	High Voltage Arc Track Rate {PLC}	4	PLC Code	UL 746A
FLAME CHARACTERISTICSValueUnitStandardUL Recognized, 94V-2 Flame Class Rating (3)0.8mmUL 94UL Recognized, 94V-0 Flame Class Rating (3)1.52mmUL 94UL Recognized, 94-5VA Rating (3)3.04mmUL 94Glow Wire Flammability Index 960°C, passes at1mmIEC 60695-2-12	High Ampere Arc Ign, surface {PLC}	3	PLC Code	UL 746A
UL Recognized, 94V-2 Flame Class Rating (3) 0.8 mm UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 1.52 mm UL 94 UL Recognized, 94-5VA Rating (3) 3.04 mm UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
UL Recognized, 94V-0 Flame Class Rating (3) UL Recognized, 94-5VA Rating (3) UL 94 UL 94 Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	FLAME CHARACTERISTICS	Value	Unit	Standard
UL Recognized, 94-5VA Rating (3) Glow Wire Flammability Index 960°C, passes at 3.04 mm UL 94 IEC 60695-2-12	UL Recognized, 94V-2 Flame Class Rating (3)	0.8	mm	UL 94
Glow Wire Flammability Index 960°C, passes at 1 mm IEC 60695-2-12	UL Recognized, 94V-0 Flame Class Rating (3)	1.52	mm	UL 94
	UL Recognized, 94-5VA Rating (3)	3.04	mm	UL 94
Glow Wire Ignitability Temperature, 1.0 mm 850 °C IEC 60695-2-13	Glow Wire Flammability Index 960°C, passes at	1	mm	IEC 60695-2-12
	Glow Wire Ignitability Temperature, 1.0 mm	850	°C	IEC 60695-2-13

Source GMD, last updated:05/21/2002

Parameter		
Injection Molding	Value	Unit
Drying Temperature	120	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	48	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	310 - 330	°C
Nozzle Temperature	305 - 325	°C
Front - Zone 3 Temperature	310 - 330	°C
Middle - Zone 2 Temperature	300 - 320	°C
Rear - Zone 1 Temperature	290 - 310	°C
Mold Temperature	80 - 115	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm

Source GMD, last updated:05/21/2002

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

- (1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

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