

LNP* Thermocomp* Compound RF006EUC

Americas: COMMERCIAL

LNP* Thermocomp* RF006EUC is a compound based on Nylon 6/6 resin containing glass fiber fillers. Added features of this material include Easy Molding and UV Stabilized.

Property

MECHANICAL Tensile Stress, Jvld, Type I, 5 mm/min 136 MPa ASTM D 638 Tensile Stress, brk, Type I, 5 mm/min 136 MPa ASTM D 638 Tensile Stress, brk, Type I, 5 mm/min 135 MPa ASTM D 638 Tensile Strain, Jvld, Type I, 5 mm/min 2.1 % ASTM D 638 Tensile Strain, Jvld, Type I, 5 mm/min 2.2 % ASTM D 638 Tensile Strain, Jvld, Type I, 5 mm/min 9790 MPa ASTM D 638 Tensile Strain, Jvld, Type I, 5 mm/min 9790 MPa ASTM D 638 Tensile Strain, Jvld, 1.3 mm/min, 50 mm span 85 MPa ASTM D 638 Tensile Stress, Jvld, 1.3 mm/min, 50 mm span 86 MPa ASTM D 790 Tensile Stress, Jvld, 1.3 mm/min, 50 mm span 8640 MPa ASTM D 790 Tensile Stress, Jvld, 5 mm/min 139 MPa ISO 527 Tensile Stress, Jvld, 5 mm/min 139 MPa ISO 527 Tensile Stress, Jvld, 5 mm/min 137 MPa ISO 527 Tensile Strain, Jvled, 5 mm/min 2.2 % ISO 527 Tensile Strain, Jvled, 5 mm/min 2.4 % ISO 527 Tensile Strain, Jvled, 5 mm/min 2.4 % ISO 527 Tensile Strain, Jvled, 5 mm/min 2.4 % ISO 527 Tensile Strain, Jvled, 5 mm/min 2.4 % ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Tensile Stress, break, 2 mm/min 207 MPa ISO 178 Televaral Stress 207 MPa ISO 178 Televaral Stress 207 MPa ISO 178 Televaral Modulus, 2 mm/min 8200 MPa IS	TYPICAL PROPERTIES (1)			
Tensile Stress, brk, Type I, 5 mm/min Tensile Strain, yld, Type I, 5 mm/min 2.1 % ASTM D 638 Tensile Strain, yld, Type I, 5 mm/min 2.2 % ASTM D 638 Tensile Strain, brk, Type I, 5 mm/min 2.2 % ASTM D 638 Tensile Modulus, 50 mm/min 9790 MPa ASTM D 638 Flexural Stress, yld, 1.3 mm/min, 50 mm span Flexural Stress, brk, 1.3 mm/min, 50 mm span Flexural Stress, brk, 1.3 mm/min, 50 mm span Flexural Stress, brk, 1.3 mm/min, 50 mm span 80 MPa ASTM D 790 Flexural Stress, yield, 5 mm/min 139 MPa ISO 527 Tensile Stress, yield, 5 mm/min 137 MPa ISO 527 Tensile Stress, break, 5 mm/min 137 MPa ISO 527 Tensile Strain, break, 5 mm/min 2.2 % ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Strain, break, 5 mm/min 9840 MPa ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Strain, break, 5 mm/min 2.7 MPa ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 178 Flexural Stress, break, 2 mm/min 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 8200 MPa ISO 178 Flexural Stress, break, 2 mm/min 109 MPa ISO 178 Flexural Modulus, 2 mm/min 100 MPa ISO 178 Flexural Stress, break, 2 mm/min 100 MPa ISO 178 Flexural Modulus, 2 mm/min 100 MPa ISO 527 Tensile Stress, break, 5 mm/min 100 MPa ISO 527 Tensile Stress, break, 5 mm/min 100 MPa ISO 527 Tensile Stress, break, 5 mm/min 100 MPa ISO 527 Tensile Stress, break,	MECHANICAL	Value	Unit	Standard
Tensile Strain, yld, Type I, 5 mm/min 2.1 % ASTM D 638 Tensile Strain, brk, Type I, 5 mm/min 2.2 % ASTM D 638 Tensile Modulus, 50 mm/min 9790 MPa ASTM D 638 Flexural Stress, yld, 1.3 mm/min, 50 mm span 80 MPa ASTM D 790 Flexural Stress, brk, 1.3 mm/min, 50 mm span 80 MPa ASTM D 790 Flexural Stress, yield, 5 mm/min 139 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 8640 MPa ASTM D 790 Flexural Stress, pield, 5 mm/min 139 MPa ISO 527 Tensile Stress, break, 5 mm/min 137 MPa ISO 527 Tensile Stress, break, 5 mm/min 2.2 % ISO 527 Tensile Strain, pield, 5 mm/min 2.4 % ISO 527 Tensile Strain, pield, 5 mm/min 2.4 % ISO 527 Tensile Strain, pield, 5 mm/min 2.4 % ISO 527 Tensile Strain, pield, 5 mm/min 2.4 % ISO 527 Tensile Strain, pield, 5 mm/min 2.4 % ISO 527 Tensile Modulus, 1 mm/min 8940 MPa ISO 527 Tensile Modulus, 1 mm/min 8940 MPa ISO 178 Flexural Stress 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 200 MPa ISO 178 IMPACT Value Unit Standard Lod Impact, unnotched, 23°C 81 J M ASTM D 4812 Lod Impact, notched, 23°C 83 J ASTM D 4812 Lod Impact, notched 80°10°4 +23°C 84 J ASTM D 3763 Lod Impact, notched 80°10°4 +23°C 66 KJ/m² ISO 1800/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 7.9E-05 1/°C ASTM D 648 HDT, 1.85 MPa, 3.2 mm, unannealed CTE, -30°C to 30°C, flow 7.9E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, flow 7.9E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, flow CTE, -30°C to 30°	Tensile Stress, yld, Type I, 5 mm/min	136	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min Tensile Modulus, 50 mm/min 9790 MPa ASTM D 638 Tensile Modulus, 50 mm/min 9790 MPa ASTM D 638 Tensile Modulus, 50 mm/min 85 MPa ASTM D 638 Flexural Stress, yld, 1.3 mm/min, 50 mm span 80 MPa ASTM D 790 Flexural Stress, brk, 1.3 mm/min, 50 mm span 80 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 8640 MPa ASTM D 790 Tensile Stress, yield, 5 mm/min 139 MPa ISO 527 Tensile Stress, break, 5 mm/min 137 MPa ISO 527 Tensile Stress, break, 5 mm/min 2.2 % ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Strain, break, 5 mm/min 8840 MPa ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Tensile Stress 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 8200 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 Flexural Modulus, 2 mm/min 1201 Mpact, unnotched, 23°C 401 J J ISO 6603 Multiaxial Impact 1 J ISO 6603 Multiaxial Impact 1 J ISO 6603 Multiaxial Impact, unnotched 80°10°4 +23°C 8 J ASTM D 256 Multiaxial Impact, unnotched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 50 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 50 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 50 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 60 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 61 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 62 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 63 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 64 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C ASTM D 696 CTE, 30°C to 30°C, fl	Tensile Stress, brk, Type I, 5 mm/min	135	MPa	ASTM D 638
Tensile Modulus, 50 mm/min 9790	Tensile Strain, yld, Type I, 5 mm/min	2.1	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span Flexural Stress, brk, 1.3 mm/min, 50 mm span Flexural Stress, brk, 1.3 mm/min, 50 mm span 860 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 8640 MPa ASTM D 790 Tensile Stress, yield, 5 mm/min 139 MPa ISO 527 Tensile Stress, break, 5 mm/min 137 MPa ISO 527 Tensile Strain, yield, 6 mm/min 2.2 % ISO 527 Tensile Strain, yield, 5 mm/min 2.4 % ISO 527 Tensile Strain, preak, 5 mm/min 2.4 % ISO 527 Tensile Strain, preak, 5 mm/min 2.4 % ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Flexural Stress 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 8200 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 726 J/m ASTM D 4812 Izod Impact, notched, 23°C 726 J/m ASTM D 256 Multiaxial Impact 1 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80°10°4 +23°C 8 J ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 8 J ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 3763 Izod Impact, notched 80°10°4 +23°C 9 ASTM D 648 CTE, -30°C to 30°C, flow 10 ASTM D 696 CTE, -30°C to 30°C, kilow 10 ASTM D 696 CTE, -30°C to 30°C, kilow 10 ASTM D 792 Density 10 ASTM D 792 Density 11 A g/cm³ ASTM D 792	Tensile Strain, brk, Type I, 5 mm/min	2.2	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span 80 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 8640 MPa ASTM D 790 Tensile Stress, yield, 5 mm/min 139 MPa ISO 527 Tensile Stress, break, 5 mm/min 137 MPa ISO 527 Tensile Strain, yield, 5 mm/min 2.2 % ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Strain, break, 5 mm/min 9840 MPa ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Tensile Strain, break, 5 mm/min 2.07 MPa ISO 178 Flexural Stress, break, 2 mm/min 207 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 Impact Lours of Modulus, 2 mm/min 8200 MPa ISO 180	Tensile Modulus, 50 mm/min	9790	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span 8640 MPa ASTM D 790 Tensile Stress, yield, 5 mm/min 139 MPa ISO 527 Tensile Stress, break, 5 mm/min 137 MPa ISO 527 Tensile Strain, jeld, 5 mm/min 2.2 % ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Tensile Stress, break, 2 mm/min 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 8200 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 Industrial Impact 1 JI JI Standard Izod Impact,	Flexural Stress, yld, 1.3 mm/min, 50 mm span	85	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min 139 MPa ISO 527 Tensile Stress, break, 5 mm/min 137 MPa ISO 527 Tensile Strain, yield, 5 mm/min 2.2 % ISO 527 Tensile Strain, yield, 5 mm/min 2.4 % ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Modulus, 1 mm/min 39840 MPa ISO 527 Tensile Modulus, 1 mm/min 39840 MPa ISO 527 Tensile Modulus, 1 mm/min 39840 MPa ISO 527 Flexural Stress 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 207 MPa ISO 178 Tensile Modulus, 2 mm/min 3200 MPa ISO 178 Tensile Modulus, 2 mm/min 3201 MPa	Flexural Stress, brk, 1.3 mm/min, 50 mm span	80	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min 137 MPa ISO 527 Tensile Strain, yield, 5 mm/min 2.2 % ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Flexural Stress 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 207 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 726 J/m ASTM D 4812 Izod Impact, notched, 23°C 61 J/m ASTM D 256 Multiaxial Impact 1 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C 6 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C 6 kJ/m² ISO 180/1A THERMAL Value	Flexural Modulus, 1.3 mm/min, 50 mm span	8640	MPa	ASTM D 790
Tensile Strain, yield, 5 mm/min 2.2 % ISO 527 Tensile Strain, break, 5 mm/min 2.4 % ISO 527 Tensile Modulus, 1 mm/min 9840 MPa ISO 527 Flexural Stress 207 MPa ISO 178 Flexural Stress, break, 2 mm/min 2207 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 IMPACT Value Unit Izod Impact, unnotched, 23°C 61 J/m ASTM D 4812 Izod Impact, notched, 23°C 61 J/m ASTM D 256 Multiaxial Impact 11 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C 43 kJ/m² ISO 180/10 THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 4249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, filow 7.9E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm 248 °C ISO 75/Bf PHYSICAL Value Unit Standard PHYSICAL Value Unit Standard ASTM D 792 Density Noisture Absorption, 50% RH, 24 hrs O .86 % ASTM D 570	Tensile Stress, yield, 5 mm/min	139	MPa	ISO 527
Tensile Strain, break, 5 mm/min 2.4	Tensile Stress, break, 5 mm/min	137	MPa	ISO 527
Tensile Modulus, 1 mm/min 9840	Tensile Strain, yield, 5 mm/min	2.2	%	ISO 527
Flexural Stress 207 MPa ISO 178	Tensile Strain, break, 5 mm/min	2.4	%	ISO 527
Flexural Stress, break, 2 mm/min 207 MPa ISO 178 Flexural Modulus, 2 mm/min 8200 MPa ISO 178 IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 726 J/m ASTM D 4812 Izod Impact, notched, 23°C 61 J/m ASTM D 256 Multiaxial Impact 1 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80*10*4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 6 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, kflow 7.9E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Af, 1.8 MPa Flatw 80*10	Tensile Modulus, 1 mm/min	9840	MPa	ISO 527
Flexural Modulus, 2 mm/min 8200 MPa ISO 178 IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 726 J/m ASTM D 4812 Izod Impact, notched, 23°C 61 J/m ASTM D 256 Multiaxial Impact 1 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80°10°4 + 23°C 43 KJ/m² ISO 180/1U Izod Impact, notched 80°10°4 + 23°C 43 KJ/m² ISO 180/1U Izod Impact, notched 80°10°4 + 23°C 6 KJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80°10°4 sp=64mm 226 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80°10°4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	Flexural Stress	207	MPa	ISO 178
IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 726 J/m ASTM D 4812 Izod Impact, notched, 23°C 61 J/m ASTM D 256 Multiaxial Impact 1 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80*10*4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 6 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, flow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity <	Flexural Stress, break, 2 mm/min	207	MPa	ISO 178
Izod Impact, unnotched, 23°C 726 J/m ASTM D 4812 Izod Impact, notched, 23°C 61 J/m ASTM D 256 Multiaxial Impact 1 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80*10*4 + 23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 + 23°C 6 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, flow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 - ASTM D 792 Moisture Absorptio	Flexural Modulus, 2 mm/min	8200	MPa	ISO 178
Izod Impact, notched, 23°C 61 J/m ASTM D 256 Multiaxial Impact 1 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80*10*4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 6 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, flow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 - ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 ASTM D 570	IMPACT	Value	Unit	Standard
Multiaxial Impact 1 J ISO 6603 Instrumented Impact Total Energy, 23°C 8 J ASTM D 3763 Izod Impact, unnotched 80*10*4 +23°C 43 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 6 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 - ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	Izod Impact, unnotched, 23°C	726	J/m	ASTM D 4812
Instrumented Impact Total Energy, 23°C 8	Izod Impact, notched, 23°C	61	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	Multiaxial Impact	1	J	ISO 6603
Iso Impact, notched 80*10*4 +23°C	Instrumented Impact Total Energy, 23°C	8	J	ASTM D 3763
THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	Izod Impact, unnotched 80*10*4 +23°C	43	kJ/m²	ISO 180/1U
HDT, 0.45 MPa, 3.2 mm, unannealed 249 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
HDT, 1.82 MPa, 3.2mm, unannealed 229 °C ASTM D 648 CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	THERMAL	Value	Unit	Standard
CTE, -30°C to 30°C, flow 3.6E-05 1/°C ASTM D 696 CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	HDT, 0.45 MPa, 3.2 mm, unannealed	249	°C	ASTM D 648
CTE, -30°C to 30°C, xflow 7.9E-05 1/°C ASTM D 696 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	HDT, 1.82 MPa, 3.2mm, unannealed	229	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 248 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	CTE, -30°C to 30°C, flow	3.6E-05	1/°C	ASTM D 696
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 226 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	CTE, -30°C to 30°C, xflow	7.9E-05	1/°C	ASTM D 696
PHYSICAL Value Unit Standard Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	248	°C	ISO 75/Bf
Specific Gravity 1.4 - ASTM D 792 Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	226	°C	ISO 75/Af
Density 1.4 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	PHYSICAL	Value	Unit	Standard
Moisture Absorption, 50% RH, 24 hrs 0.86 % ASTM D 570	Specific Gravity	1.4	-	ASTM D 792
	Density	1.4	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs 0.3 - 0.5 % ASTM D 955	Moisture Absorption, 50% RH, 24 hrs	0.86	%	ASTM D 570
	Mold Shrinkage, flow, 24 hrs	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955	Mold Shrinkage, xflow, 24 hrs	1 - 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH) 1.4 % ISO 62	Moisture Absorption (23°C / 50% RH)	1.4	%	ISO 62

Source GMD, last updated:05/20/2008

Processing

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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