



LNP* Thermocomp* Compound FF006

Americas: COMMERCIAL

LNP Thermocomp FF-1006 is a glass filled Polyethylene.

Property

MECHANICAL Value Unit Standard	TYPICAL PROPERTIES (1)			
Tensile Stress, brk, Type I, 5 mm/min Tensile Strain, yld, Type I, 5 mm/min 1.5 % ASTM D 638 Tensile Strain, brk, Type I, 5 mm/min 1.5 % ASTM D 638 Tensile Strain, brk, Type I, 5 mm/min 1.5 % ASTM D 638 Tensile Strain, brk, Type I, 5 mm/min 1.5 % ASTM D 638 Tensile Modulus, 50 mm/min 6660 MPa ASTM D 638 Tensile Modulus, 50 mm/min 6660 MPa ASTM D 638 Tensile Modulus, 50 mm/min 6660 MPa ASTM D 638 Tensile Stress, yld, 1.3 mm/min, 50 mm span 62 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 477 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 4210 MPa ASTM D 790 Tensile Stress, yled, 5 mm/min 440 MPa ISO 527 Tensile Stress, break, 5 mm/min 11.4 % ISO 527 Tensile Stress, break, 5 mm/min 11.4 % ISO 527 Tensile Strein, yled, 5 mm/min 11.4 % ISO 527 Tensile Strain, break, 5 mm/min 11.4 % ISO 527 Tensile Strain, break, 5 mm/min 11.4 % ISO 527 Tensile Strain, break, 2 mm/min 11.4 % ISO 527 Tensile Strain, break, 2 mm/min 11.4 % ISO 527 Tensile Strain, break, 2 mm/min 12.1 % ISO 178 Flexural Strain, break, 2 mm/min 13.0 178 Flexural Strain, break, 2 mm/min 14.4 % ISO 527 Tensile Strain, break, 2 mm/min 15.5 Jm ASTM D 4812 Lod Impact, unnotched, 23°C 17.5 J/m ASTM D 4812 Lod Impact, unnotched, 23°C 17.5 J/m ASTM D 4812 Lod Impact, unnotched 80°10°4 +23°C 19.5 J/m ASTM D 4812 Lod Impact, unnotched 80°10°4 +23°C 19.5 J/m ASTM D 4812 Lod Impact, unnotched 80°10°4 +23°C 19.5 J/m ASTM D 4812 Lod Impact, unnotched 80°10°4 +23°C 19.5 J/m ASTM D 4812 Lod Impact, unnotched 80°10°4 +23°C 19.5 J/m ASTM D 488 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 648 LDT, 4.5 MPa, 3.2 mm, unannealed 11.5 °C ASTM D 65	MECHANICAL	Value	Unit	Standard
Tensile Strain, yld, Type I, 5 mm/min 1.5 % ASTM D 638 Tensile Strain, brk, Type I, 5 mm/min 1.5 % ASTM D 638 Tensile Strain, brk, Type I, 5 mm/min 6660 MPa ASTM D 638 Flexural Stress, yld, 1.3 mm/min, 50 mm span 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 Modulus, 1.3 mm/min, 50 mm span 47 MPa ASTM D 790 Flexural Stress, bried, 5 mm/min 44 MPa ASTM D 790 Tensile Stress, yield, 5 mm/min 44 MPa ISO 527 Tensile Stress, break, 5 mm/min 44 MPa ISO 527 Tensile Strain, break, 5 mm/min 44 MPa ISO 527 Tensile Strain, break, 5 mm/min 44 MPa ISO 527 Tensile Strain, break, 5 mm/min 44 MPa ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Tensile Modulus, 1 mm/min 44 MPa ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 178 Flexural Strain, break, 2 mm/min 4940 MPa ISO 178 Flexural Strain, break, 2 mm/min 4940 MPa ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 180 ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 180 ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 180 ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 180 ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 180 ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 180 ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 180 ISO 180 ISO 178 ISO 180/IU ISO 183	Tensile Stress, yld, Type I, 5 mm/min	44	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min 1.5 % ASTM D 638 Tensile Modulus, 50 mm/min 6660 MPa ASTM D 638 Tensile Modulus, 50 mm/min 6660 MPa ASTM D 638 Tensile Modulus, 50 mm/min 6660 MPa ASTM D 790 Flexural Stress, pld, 1.3 mm/min, 50 mm span 47 MPa ASTM D 790 Flexural Stress, brk, 1.3 mm/min, 50 mm span 4210 MPa ASTM D 790 Tensile Stress, pied, 5 mm/min 44 MPa ISO 527 Tensile Stress, break, 5 mm/min 44 MPa ISO 527 Tensile Stress, break, 5 mm/min 44 MPa ISO 527 Tensile Stress, pied, 2 mm/min 44 MPa ISO 527 Tensile Stress, pied, 5 mm/min 44 MPa ISO 527 Tensile Strain, yield, 5 mm/min 44 MPa ISO 527 Tensile Strain, break, 5 mm/min 44 MPa ISO 527 Tensile Strain, break, 5 mm/min 44 MPa ISO 527 Tensile Strain, break, 5 mm/min 44 MPa ISO 527 Tensile Strain, break, 5 mm/min 4580 MPa ISO 527 Flexural Stress, yield, 2 mm/min 4580 MPa ISO 178 Flexural Strain, break, 2 mm/min 4940 MPa ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 178 Flexural	Tensile Stress, brk, Type I, 5 mm/min	44	MPa	ASTM D 638
Tensile Modulus, 50 mm/min 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 Modulus, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span 4210 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 4210 MPa ASTM D 790 Tensile Stress, yield, 5 mm/min 444 MPa ISO 527 Tensile Stress, piedk, 5 mm/min 1.4 % ISO 527 Tensile Strain, piedk, 5 mm/min 1.4 % ISO 527 Tensile Strain, break, 5 mm/min 1.4 % ISO 527 Tensile Strain, break, 2 mm/min 44580 MPa ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Tensile Strain, break, 2 mm/min 4580 MPa ISO 527 Tensile Strain, break, 2 mm/min 4580 MPa ISO 178 Flexural Stress, yield, 2 mm/min 64 MPa ISO 178 Flexural Strain, break, 2 mm/min 4940 MPa ISO 178 Flexural Modulus,	Tensile Strain, yld, Type I, 5 mm/min	1.5	%	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 47 MPa ASTM D 790 ASTM D 790 MPa ASTM D 790 Tensile Stress, yield, 5 mm/min 44 MPa ISO 527 Tensile Stress, break, 5 mm/min 44 MPa ISO 527 Tensile Stress, break, 5 mm/min 1.4 MPa ISO 527 Tensile Strain, yield, 5 mm/min 1.4 MPa ISO 527 Tensile Strain, pield, 5 mm/min 1.4 MPa ISO 527 Tensile Strain, pield, 5 mm/min 1.4 MPa ISO 527 Tensile Strain, pield, 5 mm/min 1.4 MPa ISO 527 Tensile Strain, pield, 5 mm/min 1.4 MPa ISO 527 Tensile Modulus, 1 mm/min 1.4 MPa ISO 527 Tensile Modulus, 1 mm/min 1.4 MPa ISO 527 Tensile Strain, pield, 5 mm/min 1.4 MPa ISO 527 Tensile Modulus, 1 mm/min 1.4 MPa ISO 527 Tensile Modulus, 1 mm/min 1.4 MPa ISO 178 Flexural Strain, break, 5 mm/min 1.4 MPa ISO 178 Flexural Strain, break, 2 mm/min 1.5 Lymm/min 1.5	Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span 4210 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 4210 MPa ASTM D 790 Flexural Stress, yield, 5 mm/min 444 MPa ISO 527 Tensile Stress, break, 5 mm/min 444 MPa ISO 527 Tensile Stress, break, 5 mm/min 1.4 % ISO 527 Tensile Strain, pied, 5 mm/min 1.4 % ISO 527 Tensile Strain, break, 5 mm/min 1.4 % ISO 527 Tensile Strain, break, 5 mm/min 1.4 % ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Tensile Modulus, 2 mm/min 64 MPa ISO 178 Flexural Stress, yield, 2 mm/min 64 MPa ISO 178 Flexural Strain, break, 2 mm/min 75 IsO 178 Flexural Modulus, 2 mm/min 10 IsO 178 Flexural Modulus, 2 mm/min 11 MPACT 12 Imm Standard 130 Imm ASTM D 4812 12 Izod Impact, unnotched, 23°C 15 J/m ASTM D 4812 12 Izod Impact, unnotched, 23°C 15 J/m ASTM D 4812 12 Izod Impact, unnotched 80°10°4 +23°C 12 IsO 180/1U 12 Izod Impact, notched 80°10°4 +23°C 13 IsO 180/1U 14 IsO 180/1A 15 IsO 180/1U 15 IsO 180/1A 17 IsO 180/1A 18 IsO 180/1A	Tensile Modulus, 50 mm/min	6660	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span 4210 MPa ASTM D 790 Tensile Stress, yield, 5 mm/min 44 MPa ISO 527 Tensile Stress, break, 5 mm/min 44 MPa ISO 527 Tensile Strain, yield, 5 mm/min 1.4 % ISO 527 Tensile Strain, yield, 5 mm/min 1.4 % ISO 527 Tensile Strain, break, 5 mm/min 1.4 % ISO 527 Tensile Strain, break, 5 mm/min 1.4 % ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Tensile Strain, break, 2 mm/min 64 MPa ISO 178 Flexural Stress, yield, 2 mm/min 7 Lex Iso 178 Flexural Strain, break, 2 mm/min 8 Junit 8 J	Flexural Stress, yld, 1.3 mm/min, 50 mm span	62	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min Tensile Stress, break, 5 mm/min 144 MPa ISO 527 Tensile Stress, break, 5 mm/min 144 MPa ISO 527 Tensile Strain, yield, 5 mm/min 144 % ISO 527 Tensile Strain, break, 5 mm/min 145 % ISO 527 Tensile Modulus, 1 mm/min 14580 MPa ISO 527 Tensile Modulus, 1 mm/min 14580 MPa ISO 527 Tensile Modulus, 1 mm/min 150 178 Flexural Stress, yield, 2 mm/min 164 MPa ISO 178 Flexural Strain, break, 2 mm/min 164 MPa ISO 178 Flexural Strain, break, 2 mm/min 164 MPa ISO 178 Flexural Modulus, 2 mm/min 178 J/m ASTM D 4812 Izod Impact, unnotched, 23°C 175 J/m ASTM D 4812 Izod Impact, unnotched, 23°C 175 J/m ASTM D 4812 Izod Impact, notched 80°10°4 +23°C 120 Impact, notched 80°10°4 +23°C 121 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C 122 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C 130 °C ASTM D 648 HDT, 0.45 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 0.45 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 1.82 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 1.82 MPa, 3.2 mm, unannealed 115 °C ASTM D 648 CTE, -40°C to 40°C, flow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 1.25E+01 1/°C ISO 11359-2 CTE, 23°C to 60°C, flow 1.25E+01 1/°C ISO 11359-2 HDT/Af, 1.8 MPa Flatw 80°10°4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density Moid Shrinkage, flow, 24 hrs 0.02 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1.18 g/cm³ ASTM D 995 Mold Shrinkage, xflow, 24 hrs 1.18 g/cm³ ISO 1183	Flexural Stress, brk, 1.3 mm/min, 50 mm span	47	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min 44 MPa ISO 527 Tensile Strain, yield, 5 mm/min 1.4 % ISO 527 Tensile Strain, break, 5 mm/min 1.4 % ISO 527 Tensile Strain, break, 5 mm/min 1.4 % ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Tensile Modulus, 1 mm/min 64 MPa ISO 527 Flexural Stress, yield, 2 mm/min 64 MPa ISO 178 Flexural Stress, yield, 2 mm/min 7 Standard 1	Flexural Modulus, 1.3 mm/min, 50 mm span	4210	MPa	ASTM D 790
Tensile Strain, yield, 5 mm/min	Tensile Stress, yield, 5 mm/min	44	MPa	ISO 527
Tensile Strain, break, 5 mm/min 1.4 % ISO 527 Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Flexural Stress, yield, 2 mm/min 64 MPa ISO 178 Flexural Strein, break, 2 mm/min 2.1 % ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 178 IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 175 J/m ASTM D 4812 Izod Impact, unnotched, 23°C 55 J/m ASTM D 256 Izod Impact, unnotched 80°10°4 +23°C 12 kJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 +23°C 4 kJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 +23°C 4 kJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 +23°C 4 kJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 +23°C 4 kJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 +23°C 4 kJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 +23°C 4 kJ/m² ISO 180/10 <	Tensile Stress, break, 5 mm/min	44	MPa	ISO 527
Tensile Modulus, 1 mm/min 4580 MPa ISO 527 Flexural Stress, yield, 2 mm/min 64 MPa ISO 178 Flexural Strain, break, 2 mm/min 2.1 % ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 178 ImpAcT Value Unit Standard Izod Impact, unnotched, 23°C 175 J/m ASTM D 4812 Izod Impact, unnotched 80°10°4 + 23°C 55 J/m ASTM D 256 Izod Impact, unnotched 80°10°4 + 23°C 4 KJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 + 23°C 4 KJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 + 23°C 4 KJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 + 23°C 4 KJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 + 23°C 4 KJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 + 23°C 4 KJ/m² ISO 180/10 Izod Impact, unnotched 80°10°4 + 23°C 4 KJ/m² ISO 180/10 Izod Impact, unnotched, 23°C ASTM D 648 KJ/m²	Tensile Strain, yield, 5 mm/min	1.4	%	ISO 527
Flexural Stress, yield, 2 mm/min 64 MPa ISO 178 Flexural Strain, break, 2 mm/min 2.1 % ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 178 IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 175 J/m ASTM D 4812 Izod Impact, unnotched, 23°C 55 J/m ASTM D 256 Izod Impact, unnotched 80°10°4 +23°C 12 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 4 kJ/m² ISO 180/1U Izod Impact, unterbed 80°10°4 +23°C 4 kJ/m² ISO 180/1U Izod Impact, unterbed 80°10°4 +23°C 4 kJ/m² ISO 180/1U Izod Impact, unterbed 80°10°4 +23°C 4 kJ/m² ISO 180/1U Izod Impact, unterbed 80°10°4 +23°C 4 kJ/m² ISO 180/1U Izod Impact, unterbed 80°10°4 +23°C 4 kJ/m² ISO 180/1U Izod Impact, unterbed 80°10°4 +23°C 4 kJ/m² ISO 180/1U Izod Impact, unterbed 90°10°4 +23°C 4 KJ/m² ISO 1	Tensile Strain, break, 5 mm/min	1.4	%	ISO 527
Flexural Strain, break, 2 mm/min 2.1 % ISO 178 Flexural Modulus, 2 mm/min 4940 MPa ISO 178 IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 175 J/m ASTM D 4812 Izod Impact, unnotched 80°10°4 +23°C 12 kJ/m² ISO 180/1U Izod Impact, unnotched 80°10°4 +23°C 4 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C 4 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 115 °C ASTM D 648 CTE, -40°C to 40°C, flow 3.22E+00 1/°C ASTM E 831 CTE, -40°C to 40°C, flow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm 129 °C ISO 75/Bf	Tensile Modulus, 1 mm/min	4580	MPa	ISO 527
Flexural Modulus, 2 mm/min 4940 MPa	Flexural Stress, yield, 2 mm/min	64	MPa	ISO 178
IMPACT Value Unit Standard Izod Impact, unnotched, 23°C 175 J/m ASTM D 4812 Izod Impact, notched, 23°C 55 J/m ASTM D 256 Izod Impact, unnotched 80*10*4 +23°C 12 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 4 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 115 °C ASTM D 648 CTE, -40°C to 40°C, flow 3.22E+00 1/°C ASTM E 831 CTE, -20°C to 40°C, xflow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density	Flexural Strain, break, 2 mm/min	2.1	%	ISO 178
Izod Impact, unnotched, 23°C 175 J/m ASTM D 4812 Izod Impact, notched, 23°C 55 J/m ASTM D 256 Izod Impact, unnotched 80*10*4 +23°C 12 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 4 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 115 °C ASTM D 648 CTE, -40°C to 40°C, flow 3.22E+00 1/°C ASTM E 831 CTE, -40°C to 40°C, flow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, flow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 119 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard	Flexural Modulus, 2 mm/min	4940	MPa	ISO 178
Izod Impact, notched, 23°C 55	IMPACT	Value	Unit	Standard
Izod Impact, unnotched 80*10*4 +23°C 12 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 4 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 115 °C ASTM D 648 CTE, -40°C to 40°C, flow 3.22E+00 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, xflow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 955 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1.18 g/cm³ ASTM D 955 <td>Izod Impact, unnotched, 23°C</td> <td>175</td> <td>J/m</td> <td>ASTM D 4812</td>	Izod Impact, unnotched, 23°C	175	J/m	ASTM D 4812
Izod Impact, notched 80*10*4 +23°C	Izod Impact, notched, 23°C	55	J/m	ASTM D 256
THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 115 °C ASTM D 648 CTE, -40°C to 40°C, flow 3.22E+00 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 955 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	Izod Impact, unnotched 80*10*4 +23°C	12	kJ/m²	ISO 180/1U
HDT, 0.45 MPa, 3.2 mm, unannealed 130 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 115 °C ASTM D 648 CTE, -40°C to 40°C, flow 3.22E+00 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
HDT, 1.82 MPa, 3.2mm, unannealed CTE, -40°C to 40°C, flow 3.22E+00 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 75/Bf HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1.18 g/cm³ ISO 1183	THERMAL	Value	Unit	Standard
CTE, -40°C to 40°C, flow 3.22E+00 1/°C ASTM E 831 CTE, -40°C to 40°C, xflow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 955 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	HDT, 0.45 MPa, 3.2 mm, unannealed	130	°C	ASTM D 648
CTE, -40°C to 40°C, xflow 1.25E+01 1/°C ASTM E 831 CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	HDT, 1.82 MPa, 3.2mm, unannealed	115	°C	ASTM D 648
CTE, 23°C to 60°C, flow 3.22E+00 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	CTE, -40°C to 40°C, flow	3.22E+00	1/°C	ASTM E 831
CTE, 23°C to 60°C, xflow 1.25E+01 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	CTE, -40°C to 40°C, xflow	1.25E+01	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 129 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	CTE, 23°C to 60°C, flow	3.22E+00	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 111 °C ISO 75/Af PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	CTE, 23°C to 60°C, xflow	1.25E+01	1/°C	ISO 11359-2
PHYSICAL Value Unit Standard Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	129	°C	ISO 75/Bf
Density 1.18 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	111	°C	ISO 75/Af
Moisture Absorption, 50% RH, 24 hrs 0.02 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	PHYSICAL	Value	Unit	Standard
Mold Shrinkage, flow, 24 hrs 0.4 - 0.7 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	Density	1.18	g/cm³	ASTM D 792
Mold Shrinkage, xflow, 24 hrs 1 - 3 % ASTM D 955 Density 1.18 g/cm³ ISO 1183	Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Density 1.18 g/cm³ ISO 1183	Mold Shrinkage, flow, 24 hrs	0.4 - 0.7	%	ASTM D 955
·	Mold Shrinkage, xflow, 24 hrs	1 - 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH) 0.03 % ISO 62	Density	1.18	g/cm³	ISO 1183
	Moisture Absorption (23°C / 50% RH)	0.03	%	ISO 62

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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