

Product Texts

LNP THERMOCOMP WF006XXL compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass fiber. Added features of this grade include: Good Mold Release, Heat Stabilized, Low Extractables.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	21	cm ³ /10min	ISO 1133
Temperature	265	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10400	MPa	ISO 527
Stress at break	131	MPa	ISO 527
Strain at break	2.4	%	ISO 527
Flexural modulus	8900	MPa	ISO 178
Flexural strength	184	MPa	ISO 178
Charpy impact strength, +23°C	49	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	6.9	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	43	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	10330	MPa	ASTM D 638
Tensile Strength at Break	128	MPa	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	9130	MPa	ASTM D 790
Izod Impact notched, 1/8 in	55	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	585	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	205	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	222	°C	ISO 75-1/-2
Vicat softening temperature, B	214	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	213	°C	ISO 306
Coeff. of linear therm. expansion, parallel	31	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	224	°C	ASTM D 648
DTUL @ 264 psi	209	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1570	kg/m ³	ISO 1183
Water Absorption, 24hr	0.01	%	ASTM D 570
Density	1570	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240 - 265	°C	-
Mold temperature	65 - 90	°C	-
Zone 1	220 - 230	°C	-
Zone 2	245 - 255	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific