

Product Texts

LNP THERMOCOMP RFB66 compound is based on Nylon 6/6 resin containing 30% glass fiber, 30% glass bead.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.55	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.45	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	13400	MPa	ISO 527
Yield stress	128	MPa	ISO 527
Yield strain	1.7	%	ISO 527
Stress at break	122	MPa	ISO 527
Strain at break	1.7	%	ISO 527
Flexural modulus	12600	MPa	ISO 178
Flexural strength	209	MPa	ISO 178
Izod impact strength, +23°C, 4mm	36	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	14980	MPa	ASTM D 638
Tensile Strength at Yield	138	MPa	ASTM D 638
Tensile Strength at Break	138	MPa	ASTM D 638
Elongation at Yield	1.8	%	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Flexural Modulus	13000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	63	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	532	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	232	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	249	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	34.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	50.9	E-6/K	ASTM D 696
DTUL @ 66 psi	257	°C	ASTM D 648
DTUL @ 264 psi	247	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.51	%	Sim. to ISO 62
Water Absorption, 24hr	0.34	%	ASTM D 570
Density	1700	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.25	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America