LNP™ THERMOCOMP™ Compound EX00781H - Europe

PEI-GF20 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP EX00781H is a compound is based on Polyetherimide (PEI) resin containing 20% glass fiber. Added features of this grade include: Healthcare.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**10**	cm³/10min	ISO 1133
Temperature	**340**	°C	-
Load	**5**	kg	-
ASTM Data			
Melt Flow Index, MFI	**12.3**	g/10min	ASTM D 1238
Temperature	**337**	°C	-
Load	**6.6**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3250**	MPa	ISO 527
Yield stress	**91**	MPa	ISO 527
Yield strain	**5.4**	%	ISO 527
Stress at break	**89**	MPa	ISO 527
Strain at break	**6**	%	ISO 527
Flexural modulus	**3310**	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	**4**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**3320**	MPa	ASTM D 638
Tensile Strength at Yield	**91**	MPa	ASTM D 638
Tensile Strength at Break	**90**	MPa	ASTM D 638
Elongation at Yield	**5.9**	%	ASTM D 638
Elongation at Break	**5.3**	%	ASTM D 638
Flexural Modulus	**3150**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**37**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**189**	°C	ISO 75-1/-2
Vicat softening temperature, 120°C/h 50N	**213**	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	**189**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1310**	kg/m³	ISO 1183
Density	**1310**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**360 - 400**	°C	-
Mold temperature	**140 - 180**	°C	-
Zone 1	**360 - 380**	°C	-
Zone 2	**370 - 390**	°C	-
Zone 3	**380 - 400**	°C	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
Europe