LNP™ THERMOCOMP™ Compound DX10313

PC-GF50 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP DX10313 compound is based on Polycarbonate (PC) resin containing 50% glass fiber. Added features of this grade include: High Modulus and High Ductility.

UL Yellow Card Link E207780-102010576

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**18**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**5**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**14100**	MPa	ISO 527
Stress at break	**152**	MPa	ISO 527
Strain at break	**2.2**	%	ISO 527
Flexural modulus	**11900**	MPa	ISO 178
ASTM Data			
Tensile Modulus	**14310**	MPa	ASTM D 638
Tensile Strength at Break	**154**	MPa	ASTM D 638
Elongation at Break	**2.3**	%	ASTM D 638
Flexural Modulus	**12200**	MPa	ASTM D 790
Flexural Strength	**222**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**166**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**669**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.4**	mm	-
ASTM Data			
DTUL @ 66 psi	**128**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1610**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**90 - 110**	°C	-
Pre-drying - Time	**3 - 5**	h	-
Melt temperature	**280 - 320**	°C	-
Mold temperature	**90 - 120**	°C	-
Zone 1	**250 - 280**	°C	-
Zone 2	**280 - 320**	°C	-
Zone 3	**280 - 320**	°C	-
Screw speed	**30 - 100**	rpm	-
Back pressure	**1 - 5**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific