LNP™ THERMOTUF™ Compound DF004PSI

PC-GF20 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOTUF DF004PSI compound is based on Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: Impact Modified, High Flow Ductile, Good Chemical Resistance.

UL Yellow Card Link E207780-102475264

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**5960**	MPa	ISO 527
Stress at break	**99**	MPa	ISO 527
Strain at break	**2.9**	%	ISO 527
ASTM Data			
Tensile Modulus	**6100**	MPa	ASTM D 638
Tensile Strength at Break	**99**	MPa	ASTM D 638
Elongation at Break	**2.9**	%	ASTM D 638
Flexural Modulus	**5380**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**160**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**627**	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	**0.5**	mm	-
ASTM Data			
DTUL @ 66 psi	**130**	°C	ASTM D 648
DTUL @ 264 psi	**126**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1330**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**110**	°C	-
Pre-drying - Time	**3 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**285 - 310**	°C	-
Mold temperature	**80 - 110**	°C	-
Zone 1	**260 - 280**	°C	-
Zone 2	**270 - 290**	°C	-
Zone 3	**280 - 300**	°C	-
Screw speed	**50 - 90**	rpm	-
Back pressure	**0.1 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Chemical Resistance
General Chemical Resistance

Special Characteristics
High impact or impact modified

Regional Availability
North America, Europe, Asia Pacific

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