LNP™ KONDUIT™ Compound OTF2B

PPS-GF10 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP KONDUIT OTF2B compound is based on Polyphenylene Sulfide (PPS) resin containing 10% glass fiber and 55% proprietary thermal fillers. Added features of this grade include: Thermally Conductive.

UL Yellow Card Link E121562-101343423

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.5**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.5**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.7**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**16200**	MPa	ISO 527
Stress at break	**84**	MPa	ISO 527
Strain at break	**0.8**	%	ISO 527
Flexural modulus	**14900**	MPa	ISO 178
Flexural strength	**137**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**14**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**4**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**16370**	MPa	ASTM D 638
Tensile Strength at Break	**83**	MPa	ASTM D 638
Elongation at Break	**0.9**	%	ASTM D 638
Flexural Modulus	**15610**	MPa	ASTM D 790
Flexural Strength	**136**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**16**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**170**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**202**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**264**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-

Other properties	Value	Unit	Test Standard
Density	**2200**	kg/m³	ISO 1183
Density	**2210**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120 - 150**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**315 - 320**	°C	-
Mold temperature	**140 - 165**	°C	-
Zone 1	**305 - 315**	°C	-
Zone 2	**320 - 330**	°C	-
Zone 3	**330 - 345**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Special Characteristics
Thermally Conductive

Regional Availability
North America, Europe, Asia Pacific