LNP™ THERMOCOMP™ Compound Z1C00I

(PPE+PS) Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP Z1C00I compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing proprietary fillers. Added features of this grade include: Ultra-Low Dielectric Constant and Loss Tangent, High HDT, Low Warpage, Excellent Surface Finishing and Chemical Resistant. It can also be Electro-less or Electro plated.

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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2700**	MPa	ISO 527
Stress at break	**55**	MPa	ISO 527
Strain at break	**15**	%	ISO 527
Flexural modulus	**2600**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**50**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**6**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**2600**	MPa	ASTM D 638
Tensile Strength at Yield	**70**	MPa	ASTM D 638
Tensile Strength at Break	**50**	MPa	ASTM D 638
Elongation at Break	**12**	%	ASTM D 638
Flexural Modulus	**2500**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**50**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**1050**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 0.45 MPa	**160**	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	**1060**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**3 - 5**	h	-
Melt temperature	**280 - 300**	°C	-
Mold temperature	**80 - 120**	°C	-
Zone 1	**270 - 280**	°C	-
Zone 2	**280 - 290**	°C	-
Zone 3	**280 - 300**	°C	-
Screw speed	**≥100**	rpm	-
Back pressure	**10**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Chemical Resistance
General Chemical Resistance

Regional Availability
North America, Europe, Asia Pacific