LNP™ THERMOCOMP™ Compound Z1C00VI

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

Product Texts

LNP THERMOCOMP Z1C00VI 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 for Laser Direct Structuring (LDS), High HDT, Low Warpage, Excellent Surface Finishing and Chemical Resistant.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2800**	MPa	ISO 527
Stress at break	**55**	MPa	ISO 527
Strain at break	**9**	%	ISO 527
Flexural modulus	**2800**	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	**2700**	MPa	ASTM D 638
Tensile Strength at Break	**52**	MPa	ASTM D 638
Elongation at Break	**8**	%	ASTM D 638
Flexural Modulus	**2700**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**40**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**600**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 0.45 MPa	**155**	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	**1110**	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	**270 - 320**	°C	-
Mold temperature	**100 - 140**	°C	-
Zone 1	**260 - 290**	°C	-
Zone 2	**270 - 300**	°C	-
Zone 3	**280 - 310**	°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