سابک ےندائے

LNPTM THERMOCOMPTM COMPOUND PFOOC

PF-100-12 REGION EUROPE

DESCRIPTION

LNP THERMOCOMP PFOOC compound is based on Nylon 6 resin containing 60% glass fiber.

GENERAL INFORMATION	
Features	High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polyamide 6 (Nylon 6)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL⁽¹⁾ Tensile Stress, yield, 5 mm/min 206 MPa ISO 527 % Tensile Strain, break, 5 mm/min 3 ISO 527 Tensile Modulus, 1 mm/min 20400 MPa ISO 527 Flexural Stress, yield, 2 mm/min 312 MPa ISO 178 Flexural Stress, break, 2 mm/min 307 MPa ISO 178 Flexural Strain, break, 2 mm/min 3.7 % ISO 178 Flexural Modulus, 2 mm/min 16700 MPa ISO 178 IMPACT (1) Izod Impact, unnotched 80*10*4 +23°C ISO 180/1U 90 kJ/m² Izod Impact, notched 80*10*4 +23°C 13 ISO 180/1A kJ/m² THERMAL⁽¹⁾ 1.7E-05 CTE, 23°C to 60°C, flow 1/°C ISO 11359-2 CTE, 23°C to 60°C, xflow 6.5E-05 1/°C ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 219 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm °C 206 ISO 75/Af Relative Temp Index, Elec (2) 65 °C UL 746B Relative Temp Index, Mech w/impact $^{\rm (2)}$ °C 65 UL 746B Relative Temp Index, Mech w/o impact $^{\rm (2)}$ °C UL 746B 65 PHYSICAL (1)

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CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow ⁽³⁾	0.3	%	SABIC method
Density	1.72	g/cm³	ISO 1183
FLAME CHARACTERISTICS (2)			
UL Yellow Card Link	E45329-101344682	-	
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING ⁽⁴⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	265 – 275	°C	
Front - Zone 3 Temperature	275 – 290	°C	
Middle - Zone 2 Temperature	265 – 275	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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