# سیابک ےندائی

Revision 20231109

## LNPTM THERMOCOMPTM COMPOUND IF006

IF-1006 REGION EUROPE

#### DESCRIPTION

LNP THERMOCOMP IF006 compound is based on Nylon 6/12 resin containing 30% glass fiber.

GENERAL INFORMATION	
Features	High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polyamide 612 (Nylon 612)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Personal Accessory
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

### TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL<sup>(1)</sup> Tensile Stress, yield, 5 mm/min 120 MPa ISO 527 21 ISO 527 Tensile Strain, break, 5 mm/min % Tensile Modulus, 1 mm/min 7800 MPa ISO 527 Flexural Stress, yield, 2 mm/min 185 MPa ISO 178 Flexural Strain, break, 2 mm/min 4.2 % ISO 178 Flexural Modulus, 2 mm/min 6050 MPa ISO 178 IMPACT (1) Izod Impact, unnotched 80\*10\*4 +23°C 30 kJ/m² ISO 180/1U ISO 180/1A Izod Impact, notched 80\*10\*4 +23°C 9 kJ/m² THERMAL (1) 1/°C CTE, 23°C to 60°C, flow 3.9E-05 ISO 11359-2 1/°C CTE, 23°C to 60°C, xflow 1.6E-04 ISO 11359-2 HDT/Bf, 0.45 MPa Flatw 80\*10\*4 sp=64mm 209 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80\*10\*4 sp=64mm 188 °C ISO 75/Af PHYSICAL (1) Mold Shrinkage, flow (2) 0.3 - 0.4 % SABIC method Density 1.29 ISO 1183 g/cm³ Water Absorption, (23°C/24hrs) 0.25 % ISO 62-1 INJECTION MOLDING (3)

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CHEMISTRY THAT MATTERS



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.12 – 0.2	%	
Melt Temperature	270 – 275	°C	
Front - Zone 3 Temperature	270 – 280	°C	
Middle - Zone 2 Temperature	260 – 270	°C	
Rear - Zone 1 Temperature	255 – 265	°C	
Mold Temperature	65 – 95	°C	
Back Pressure	0.2 - 0.3	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) 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.

(3) 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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