

## SABIC Innovative Plastics LNP THERMOCOMP PF005 PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

25% glass fibre reinforced Polyamide 6 injection moulding resin.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF005-PA-6-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF005-PA-6-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	6.5 %	6.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
Tensile Modulus	7.90 GPa	1150 ksi	1 mm/min; ISO 527
Flexural Strength	190 MPa	27600 psi	2 mm/min; ISO 178
Flexural Modulus	7.80 GPa	1130 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 Åµm/m-Å°C	17.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	91.0 Åµm/m-Å°C	50.6 Åµin/in-Å°F	ISO 11359-2

Thermal Properties	Metric @Temperature 23.0 - 80.0 Â°C	English @Temperature 73.4 - 176.0 Â°F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	222 Â°C	432 Â°F	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	UL 94 by SABIC-IP
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	650 Â°C @Thickness 2.00 mm	1200 Â°F @Thickness 0.0787 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ROA; IEC 60093
Dielectric Constant	3.4 @Frequency 1.00e+6 Hz	3.4 @Frequency 1.00e+6 Hz	IEC 60250
	3.6 @Frequency 50.0 - 60.0 Hz	3.6 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	20.0 kV/mm @Thickness 3.20 mm	508 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0061 @Frequency 50.0 - 60.0 Hz	0.0061 @Frequency 50.0 - 60.0 Hz	IEC 60250
	0.016 @Frequency 1.00e+6 Hz	0.016 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	>= 375 V	>= 375 V	IEC 60112
	500 V	500 V	IEC 60112

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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