

SABIC Innovative Plastics LNP THERMOCOMP PF006U PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

UV stabilized, 30% 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-PF006U-PA-6-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Moisture Absorption	1.80 %	1.80 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	6.5 %	6.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	112	112	ISO 2039-2
Tensile Strength at Break	160 MPa	23200 psi	5 mm/min; ISO 527
Elongation at Break	3.6 %	3.6 %	5 mm/min; ISO 527
Tensile Modulus	9.50 GPa	1380 ksi	1 mm/min; ISO 527
Flexural Strength	230 MPa	33400 psi	2 mm/min; ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
	9.00 kJ/m ² @Temperature -40.0 °C	4.28 ft-lb/in ² @Temperature -40.0 °F	80*10*4; ISO 180/1A
	10.0 kJ/m ² @Temperature -20.0 °C	4.76 ft-lb/in ² @Temperature -4.00 °F	80*10*4; ISO 180/1A
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	7.50 J/cm ² @Temperature -30.0 °C	35.7 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched			Edgew 80*10*4 sp=62mm; ISO

Mechanical Properties	1.10 J/cm ² Metric	9.23 ft-lb/in ² English	179/1eA Comments
	0.900 J/cm ²	4.28 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
CTE, linear, Transverse to Flow	85.0 Âµm/m-Â°C	47.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft ² - Â°F	ISO 8302
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	215 Â°C	419 Â°F	Rate B/50; ISO 306
	215 Â°C	419 Â°F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	25 %	25 %	ISO 4589
Glow Wire Test	650 Â°C	1200 Â°F	IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	20.0 kV/mm	508 kV/in	

Dielectric Strength Electrical Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	In oil: IEC 60243-1 Comments
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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China