

SYNTHOS Krasten® 336M High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Easy flow grade. Processed by injection moulding of intricate and thin-walled products that enables high production output. Synthos was formerly known as Kaucuk. All information provided by Synthos.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SYNTHOS-Krasten-336M-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	Internal; 50x50mm
Melt Flow	11 - 13 g/10 min @Load 5.00 kg, Temperature 200 °C	11 - 13 g/10 min @Load 11.0 lb, Temperature 392 °F	Granulate; ISO 1133/H

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	80.0 MPa	11600 psi	Fm=358N; Ø 50x4mm; ISO 2039-1
Tensile Strength at Break	24.0 MPa @Temperature 23.0 °C	3480 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Tensile Strength, Yield	28.0 MPa @Temperature 23.0 °C	4060 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Elongation at Break	35 %	35 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	2.30 GPa @Temperature 23.0 °C	334 ksi @Temperature 73.4 °F	1mm/min; ISO 527-2/1A/1
Flexural Strength	42.0 MPa @Temperature 23.0 °C	6090 psi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm; ISO 180/1U
Charpy Impact Unnotched	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm; ISO 179/1fU
	7.00 J/cm ²	33.3 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	80x10x4mm; ISO 179/1eU Comments
Charpy Impact, Notched	0.500 J/cm ² @ Temperature 23.0 °C	2.38 ft-lb/in ² @ Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	80x10x4mm; ISO 75-2/Af
Vicat Softening Point	82.0 °C	180 °F	50°C/h; 50N; 10x10x4mm; ISO 306/B50
	89.0 °C	192 °F	50°C/h; 10N; 10x10x4mm; ISO 306/A50
	93.0 °C	199 °F	120°C/h; 10N; 10x10x4mm; ISO 306/A120
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	Tested in EZÚ Praha
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	Tested in EZÚ Praha
Glow Wire Test	650 °C	1200 °F	Ø 93x3mm; IEC 695-2-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	500V; Ø 93x3mm; IEC 93
Surface Resistance	>= 5.00e+14 ohm	>= 5.00e+14 ohm	500V; Ø 93x3mm; IEC 93
Dielectric Constant	<= 3.0 @Frequency 50 Hz	<= 3.0 @Frequency 50 Hz	500V; Ø 93x3mm; IEC 250
Dielectric Strength	>= 28.0 kV/mm	>= 711 kV/in	Transformer Oil; Ø 93x3mm; IEC 243-1
Dissipation Factor	<= 0.0010 @Frequency 50 Hz	<= 0.0010 @Frequency 50 Hz	500V; Ø 93x3mm; IEC 250
Arc Resistance	>= 70 sec	>= 70 sec	Ø 93x3mm; IEC 61 621
Comparative Tracking Index	>= 300 V	>= 300 V	Solution A; Ø 93x3mm; IEC 112

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