

SYNTHOS Krasten® 137 General Purpose Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

Easy flow. Examples of Application: Injection moulding of cups and containers for the food industry, medical devices, drawing templates. Extrusion of coextrusion, high gloss surface. 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-137-General-Purpose-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	Internal; 50x50mm
Melt Flow	17 - 19 g/10 min @Load 5.00 kg, Temperature 200 °C	17 - 19 g/10 min @Load 11.0 lb, Temperature 392 °F	Granulate; ISO 1133/H

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	H 358/30; 50x4mm; ISO 2039-1
Tensile Strength at Break	43.0 MPa	6240 psi	5mm/min; ISO 527-2/1A/5
Elongation at Break	2.0 %	2.0 %	50mm/min; ISO 527-2/1A/5
Tensile Modulus	3.10 GPa	450 ksi	1mm/min; ISO 527-2/1A/1
Flexural Strength	75.0 MPa	10900 psi	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Unnotched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm; ISO 180/1U
Charpy Impact Unnotched	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm; ISO 179/1eU
	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm; ISO 179/1fU

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	80x10x4mm; ISO 75-2/af
Vicat Softening Point	85.0 °C	185 °F	50°C/h; 50N; 10x10x4mm; ISO 306/B50

Thermal Properties	Metric	English	Comments
			1N; 10x10x4mm; ISO 308/A30
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	Tested in EZŠ Praha
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	Tested in EZŠ Praha
Glow Wire Test	650 Â°C	1200 Â°F	Š 93x3mm; IEC 695-2-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	500V; Š 93x3mm; IEC 93
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	500V; Š 93x3mm; IEC 93
Dielectric Constant	<= 2.7 @Frequency 50 Hz	<= 2.7 @Frequency 50 Hz	500V; Š 93x3mm; IEC 250
Dielectric Strength	>= 60.0 kV/mm	>= 1520 kV/in	Transformer Oil; Š 93x3mm; IEC 243-1
Dissipation Factor	<= 0.0020 @Frequency 50 Hz	<= 0.0020 @Frequency 50 Hz	500V; Š 93x3mm; IEC 250
Comparative Tracking Index	>= 250 V	>= 250 V	Solution A; Š 93x3mm; IEC 112

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