

SYNTHOS Krasten® 154 General Purpose Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

Improved heat resistance, very good rheological properties.Examples of Application:Injection moulding " dishes, jars, Petri dishes, screw caps.Extrusion " blends with high impact polystyrene or coextrusion " high gloss surface. Additional formation possible.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-154-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	9.0 - 10 g/10 min @Load 5.00 kg, Temperature 200 °C	9.0 - 10 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	45.0 MPa	6530 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	90.0 MPa	13100 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 Thermal Properties	86.0 Â°C Metric	187 Â°F English	50Â°C/h; 50N; 10x10x4mm; ISO 306/A50
	90.0 Â°C	194 Â°F	50Â°C/h; 10N; 10x10x4mm; ISO 306/A50
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	>= 50.0 kV/mm	>= 1270 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

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