

SYNTHOS Krasten® 662E High Impact Polystyrene

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

Material Notes:

High impact grade with properties suitable for thermoforming. Processed mainly by extrusion and thermoforming. Production of demanding visual appearance plates, technical parts, sheets and molded packaging. 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-662E-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	3.0 - 4.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 - 4.0 g/10 min @Load 11.0 lb, Temperature 392 °F	Granulate; ISO 1133/H

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	60.0 MPa	8700 psi	Fm=358N; Å 50x4mm; ISO 2039-1
Tensile Strength at Break	22.0 MPa @Temperature 23.0 °C	3190 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Tensile Strength, Yield	23.0 MPa @Temperature 23.0 °C	3340 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Elongation at Break	50 %	50 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	1.75 GPa @Temperature 23.0 °C	254 ksi @Temperature 73.4 °F	1mm/min; ISO 527-2/1A/1
Flexural Strength	35.0 MPa @Temperature 23.0 °C	5080 psi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature 23.0 °C	5.23 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
Izod Impact, Unnotched (ISO)	130 kJ/m ² @Temperature 23.0	61.9 ft-lb/in ²	80x10x4mm; ISO 180/1U

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	15.0 J/cm ² @Temperature 23.0 °C	71.4 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm; ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	80x10x4mm; ISO 179/1fU
Charpy Impact, Notched	0.110 J/cm ² @Temperature 23.0 °C	0.524 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)	75.0 °C	167 °F	80x10x4mm; ISO 75-2/Af
Vicat Softening Point	88.0 °C	190 °F	50°C/h; 50N; 10x10x4mm; ISO 306/B50
	100 °C	212 °F	120°C/h; 10N; 10x10x4mm; ISO 306/A120
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 °C	1200 °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	>= 5.00e+14 ohm	>= 5.00e+14 ohm	500V; Š 93x3mm; IEC 93
Dielectric Constant	<= 3.0 @Frequency 50 Hz	<= 3.0 @Frequency 50 Hz	500V; Š 93x3mm; IEC 250
Dielectric Strength	>= 32.0 kV/mm	>= 813 kV/in	Transformer Oil; Š 93x3mm; IEC 243-1
Dissipation Factor	<= 0.0010 @Frequency 50 Hz	<= 0.0010 @Frequency 50 Hz	500V; Š 93x3mm; IEC 250
Arc Resistance	>= 70 sec	>= 70 sec	Š 93x3mm; IEC 61 621
Comparative Tracking Index	>= 300 V	>= 300 V	Solution A; Š 93x3mm; IEC 112

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