

## SYNTHOS Krasten® 562E 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 plates, sheets, technical parts and molded packaging (used in e.g. the food and dairy industry). 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-562E-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_SYNTHOS-Krasten-562E-High-Impact-Polystyrene.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	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	65.0 MPa	9430 psi	Fm=358N; Ø 50x4mm; ISO 2039-1
Tensile Strength at Break	25.0 MPa @Temperature 23.0 °C	3630 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Tensile Strength, Yield	30.0 MPa @Temperature 23.0 °C	4350 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Elongation at Break	45 %	45 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	2.00 GPa @Temperature 23.0 °C	290 ksi @Temperature 73.4 °F	1mm/min; ISO 527-2/1A/1
Flexural Strength	38.0 MPa @Temperature 23.0 °C	5510 psi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
Izod Impact, Unnotched (ISO)	100 kJ/m <sup>2</sup> @Temperature 23.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4mm; ISO 180/1U
Charpy Impact Unnotched	13.0 J/cm <sup>2</sup> @Temperature 23.0 °C	61.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4mm; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	80x10x4mm; ISO 179/1fU
Charpy Impact, Notched	0.950 J/cm <sup>2</sup>	4.52 ft-lb/in <sup>2</sup>	80x10x4mm, r=0.25; V-notch; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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
	94.0 °C	201 °F	120°C/h; 50N; 10x10x4mm; ISO 306/B120
	98.0 °C	208 °F	50°C/h; 10N; 10x10x4mm; ISO 306/A50
	100 °C	212 °F	120°C/h; 10N; 10x10x4mm; ISO 306/A120
Flammability, UL94	HB	HB	Tested in EZÚ Praha
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	Tested in EZÚ Praha
	@Thickness 3.00 mm	@Thickness 0.118 in	
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	>= 1.00e+15 ohm	>= 1.00e+15 ohm	500V; Ø 93x3mm; IEC 93
Dielectric Constant	<= 3.0	<= 3.0	500V; Ø 93x3mm; IEC 250
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	>= 28.0 kV/mm	>= 711 kV/in	Transformer Oil; Ø 93x3mm; IEC 243-1
Dissipation Factor	<= 0.0010	<= 0.0010	500V; Ø 93x3mm; IEC 250
	@Frequency 50 Hz	@Frequency 50 Hz	
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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