

## SYNTHOS Krasten® 552M High Impact Polystyrene

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

### Material Notes:

High impact grade with a wide range of Applications. Processed mainly by injection moulding. Production of consumer goods and technical parts subjected to increased mechanical stress. Good results in the extrusion of profiles. 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-552M-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_SYNTHOS-Krasten-552M-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	6.0 - 7.0 g/10 min @Load 5.00 kg, Temperature 200 °C	6.0 - 7.0 g/10 min @Load 11.0 lb, Temperature 392 °F	Granulate; ISO 1133/H

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	70.0 MPa	10200 psi	Fm=358N; Ø 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	30.0 MPa @Temperature 23.0 °C	4350 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Elongation at Break	40 %	40 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	2.10 GPa @Temperature 23.0 °C	305 ksi @Temperature 73.4 °F	1mm/min; ISO 527-2/1A/1
Flexural Strength	40.0 MPa @Temperature 23.0 °C	5800 psi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
Izod Impact, Unnotched (ISO)	80.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	38.1 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4mm; ISO 180/1U
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup> @Temperature 23.0 °C	47.6 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	0.850 J/cm <sup>2</sup>	4.05 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)	72.0 °C	162 °F	80x10x4mm; ISO 75-2/Af
Vicat Softening Point	84.0 °C	183 °F	50°C/h; 50N; 10x10x4mm; ISO 306/B50
	90.0 °C	194 °F	120°C/h; 50N; 10x10x4mm; ISO 306/B120
	94.0 °C	201 °F	50°C/h; 10N; 10x10x4mm; ISO 306/A50
	96.0 °C	205 °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	>= 5.00e+14 ohm	>= 5.00e+14 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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