

SYNTHOS Krasten® FB28 High Impact Polystyrene And Polyethylene Blend

Category : Polymer , Thermoplastic , Polyethylene (PE) , Polystyrene (PS)

Material Notes:

Polymer blend HIPS/PE. High toughness, very good tensile properties and environmental stress cracking resistance. Processed mainly by extrusion and thermoforming. Production of sheets and films, technical parts and packaging (e.g. dairy 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-FB28-High-Impact-Polystyrene-And-Polyethylene-Blend.php

Physical Properties	Metric	English	Comments
Density	0.995 g/cc	0.0359 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	Internal; 50x50mm
Melt Flow	4.0 - 5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	4.0 - 5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	Granulate; ISO 1133/H

Mechanical Properties	Metric	English	Comments
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	22.0 MPa @Temperature 23.0 °C	3190 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Elongation at Break	60 %	60 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	1.20 GPa @Temperature 23.0 °C	174 ksi @Temperature 73.4 °F	1mm/min; ISO 527-2/1A/1
Flexural Strength	30.0 MPa @Temperature 23.0 °C	4350 psi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	24.0 kJ/m ² @Temperature 23.0 °C	11.4 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
Izod Impact, Unnotched (ISO)	97.0 kJ/m ² @Temperature 23.0 °C	46.2 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm; ISO 180/1U
	NB		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	80x10x4mm; ISO 179/1fU
Charpy Impact, Notched	0.220 J/cmÂ² @Temperature 23.0 Â°C	1.05 ft-lb/inÂ² @Temperature 73.4 Â°F	80x10x4mm, r=0.25; V-notch; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	68.0 Â°C	154 Â°F	80x10x4mm; ISO 75-2/Af
Vicat Softening Point	64.0 Â°C	147 Â°F	50Â°C/h; 50N; 10x10x4mm; ISO 306/B50
	97.0 Â°C	207 Â°F	50Â°C/h; 10N; 10x10x4mm; ISO 306/A50

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