

SYNTHOS Forsan® 573 Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Increased heat resistant, glossy, good mechanical properties, suitable for electroplating. Applications: Electrotechnics, automotive Household appliances, electric switches, car interior parts, profiles, ABS sheets, etc. Synthos was formerly known as Kaucuk. All information provided by Synthos.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SYNTHOS-Forsan-573-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	Internal; 50x50mm
Melt Flow	7.35 g/10 min @Load 10.0 kg, Temperature 220 °C	7.35 g/10 min @Load 22.0 lb, Temperature 428 °F	Granulate; ISO 1133/U

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	97.0 MPa	14100 psi	H 358/30; ~ 50x4mm; ISO 2039-1
Tensile Strength at Break	34.0 MPa @Temperature 23.0 °C	4930 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Tensile Strength, Yield	41.0 MPa @Temperature 23.0 °C	5950 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Elongation at Break	9.0 %	9.0 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	2.30 GPa @Temperature 23.0 °C	334 ksi @Temperature 73.4 °F	1mm/min; ISO 527-2/1A/1
Flexural Strength	65.0 MPa @Temperature 23.0 °C	9430 psi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Flexural Modulus	2.20 GPa @Temperature 23.0 °C	319 ksi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	22.0 kJ/m ² @Temperature 23.0 °C	10.5 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
	18.0 J/cm ²		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Å°C	85.7 ft-lb/inÅ² @Temperature 73.4 Å°F	ISO 179/1eU
Charpy Impact, Notched	2.00 J/cmÅ² @Temperature 23.0 Å°C	9.52 ft-lb/inÅ² @Temperature 73.4 Å°F	80x10x4mm, r=0.25; V-notch; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Vicat Softening Point	102 Å°C	216 Å°F	50Å°C/h; 50N; 10x10x4mm; ISO 306/B50
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	Tested in EZÅš Praha
Glow Wire Test	650 Å°C	1200 Å°F	Å~ 93x3mm; IEC 60695-2-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	500V; Å~ 93x3mm; IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	500V; Å~ 93x3mm; IEC 60093
Dielectric Constant	<= 2.6 @Frequency 50 Hz	<= 2.6 @Frequency 50 Hz	Å~ 50x3mm; IEC 60250
	2.6 @Frequency 1e+6 Hz	2.6 @Frequency 1e+6 Hz	Å~ 50x3mm; IEC 60250
Dielectric Strength	12.0 kV/mm @Thickness 3.00 mm	305 kV/in @Thickness 0.118 in	Transformer Oil; IEC 60243-1
	48.0 kV/mm @Thickness 0.500 mm	1220 kV/in @Thickness 0.0197 in	Transformer Oil; IEC 60243-1
Dissipation Factor	0.0050 @Frequency 50 Hz	0.0050 @Frequency 50 Hz	Å~ 93x3mm; IEC 60250
	0.0080 @Frequency 1e+6 Hz	0.0080 @Frequency 1e+6 Hz	Å~ 93x3mm; IEC 60250
Arc Resistance	92 sec	92 sec	Å~ 93x3mm; IEC 61621
Comparative Tracking Index	400 V	400 V	Solution A; Å~ 93x3mm; IEC 60112

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