

SYNTHOS Forsan® 449 Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

High flow, high gloss, suitable for electroplating. Applications: General purpose, intricate and thin-walled products Household appliances, vacuum cleaners, heels, toys, fan grilles, 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-449-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	32.55 g/10 min @Load 10.0 kg, Temperature 220 °C	32.55 g/10 min @Load 22.0 lb, Temperature 428 °F	Granulate; ISO 1133/U

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	99.0 MPa	14400 psi	H 358/30; Å 50x4mm; ISO 2039-1
Tensile Strength at Break	32.0 MPa @Temperature 23.0 °C	4640 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Tensile Strength, Yield	40.0 MPa @Temperature 23.0 °C	5800 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Elongation at Break	12 %	12 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	2.50 GPa @Temperature 23.0 °C	363 ksi @Temperature 73.4 °F	1mm/min; ISO 527-2/1A/1
Flexural Strength	62.0 MPa @Temperature 23.0 °C	8990 psi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Flexural Modulus	2.30 GPa @Temperature 23.0 °C	334 ksi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	19.0 kJ/m ² @Temperature 23.0 °C	9.04 ft-lb/in ² @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
	13.0 J/cm ²	61.9 ft-lb/in ²	

Charpy Impact Unnotched Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	80x10x4mm; ISO 179/1eU Comments
Charpy Impact, Notched	1.60 J/cmÂ² @Temperature 23.0 Â°C	7.61 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)	94.0 Â°C	201 Â°F	80x10x4mm; ISO 75-2/af
Vicat Softening Point	95.0 Â°C	203 Â°F	50Â°C/h; 50N; 10x10x4mm; ISO 306/B50
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	Tested in EZŠ Praha
Glow Wire Test	650 Â°C	1200 Â°F	Š 93x3mm; IEC 60695-2-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	500V; Š 93x3mm; IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	500V; Š 93x3mm; IEC 60093
Dielectric Constant	2.6 @Frequency 1e+6 Hz	2.6 @Frequency 1e+6 Hz	Š 50x3mm; IEC 60250
	<= 2.7 @Frequency 50 Hz	<= 2.7 @Frequency 50 Hz	Š 50x3mm; IEC 60250
Dielectric Strength	13.0 kV/mm @Thickness 3.00 mm	330 kV/in @Thickness 0.118 in	Transformer Oil; IEC 60243-1
	53.0 kV/mm @Thickness 0.500 mm	1350 kV/in @Thickness 0.0197 in	Transformer Oil; IEC 60243-1
Dissipation Factor	0.0040 @Frequency 50 Hz	0.0040 @Frequency 50 Hz	Š 93x3mm; IEC 60250
	0.0080 @Frequency 1e+6 Hz	0.0080 @Frequency 1e+6 Hz	Š 93x3mm; IEC 60250
Arc Resistance	82 sec	82 sec	Š 93x3mm; IEC 61621
Comparative Tracking Index	400 V	400 V	Solution A; Š 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