

SYNTHOS Forsan® 393 Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

High heat resistance, high gloss. Applications: Electrotechnics, lighting equipment, automotive Household appliances, electric switches, lamps, car interior parts, 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-393-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	5.25 g/10 min @Load 10.0 kg, Temperature 220 Å°C	5.25 g/10 min @Load 22.0 lb, Temperature 428 Å°F	Granulate; ISO 1133/U

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa @Temperature 23.0 Å°C	5950 psi @Temperature 73.4 Å°F	50mm/min; ISO 527-2/1A/50
Tensile Strength, Yield	57.0 MPa @Temperature 23.0 Å°C	8270 psi @Temperature 73.4 Å°F	50mm/min; ISO 527-2/1A/50
Elongation at Break	8.0 %	8.0 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	2.70 GPa @Temperature 23.0 Å°C	392 ksi @Temperature 73.4 Å°F	1mm/min; ISO 527-2/1A/1
Flexural Strength	80.0 MPa @Temperature 23.0 Å°C	11600 psi @Temperature 73.4 Å°F	2mm/min; 80x10x4mm; ISO 178
Flexural Modulus	2.60 GPa @Temperature 23.0 Å°C	377 ksi @Temperature 73.4 Å°F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/mÅ² @Temperature 23.0 Å°C	4.76 ft-lb/inÅ² @Temperature 73.4 Å°F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
Charpy Impact Unnotched	14.0 J/cmÅ² @Temperature 23.0 Å°C	66.6 ft-lb/inÅ² @Temperature 73.4 Å°F	80x10x4mm; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.209 J/cm ² @Temperature 23.0 Â°C	lb/in ² @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)	109 Â°C	228 Â°F	80x10x4mm; ISO 75-2/Af
Vicat Softening Point	112 Â°C	234 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	3.00e+16 ohm-cm	3.00e+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	2.7 @Frequency 1e+6 Hz	2.7 @Frequency 1e+6 Hz	Š ~ 50x3mm; IEC 60250
	<= 2.8 @Frequency 50 Hz	<= 2.8 @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
	46.0 kV/mm @Thickness 0.500 mm	1170 kV/in @Thickness 0.0197 in	Transformer Oil; IEC 60243-1
Dissipation Factor	0.0050 @Frequency 50 Hz	0.0050 @Frequency 50 Hz	Š ~ 93x3mm; IEC 60250
	0.0070 @Frequency 1e+6 Hz	0.0070 @Frequency 1e+6 Hz	Š ~ 93x3mm; IEC 60250
Arc Resistance	117 sec	117 sec	Š ~ 93x3mm; IEC 61621
Comparative Tracking Index	400 V	400 V	Solution A; Š ~ 93x3mm; IEC 60112

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