

SYNTHOS Forsan® 846 Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

High impact, medium flow, glossy, suitableApplications: General purpose, transport packaging, furniture, leisure time equipmentContainers, suitcases, profiles, ABS sheets, skis, helmets, garden equipment, 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-846-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 Â°C	7.35 g/10 min @Load 22.0 lb, Temperature 428 Â°F	Granulate; ISO 1133/U

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	74.0 MPa	10700 psi	H 358/30; Ã 50x4mm; ISO 2039-1
Tensile Strength at Break	27.0 MPa @Temperature 23.0 Â°C	3920 psi @Temperature 73.4 Â°F	50mm/min; ISO 527-2/1A/50
Tensile Strength, Yield	36.0 MPa @Temperature 23.0 Â°C	5220 psi @Temperature 73.4 Â°F	50mm/min; ISO 527-2/1A/50
Elongation at Break	9.0 %	9.0 %	50mm/min; ISO 527-2/1A/50
Tensile Modulus	1.90 GPa @Temperature 23.0 Â°C	276 ksi @Temperature 73.4 Â°F	1mm/min; ISO 527-2/1A/1
Flexural Strength	50.0 MPa @Temperature 23.0 Â°C	7250 psi @Temperature 73.4 Â°F	2mm/min; 80x10x4mm; ISO 178
Flexural Modulus	1.70 GPa @Temperature 23.0 Â°C	247 ksi @Temperature 73.4 Â°F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	33.0 kJ/mÂ² @Temperature 23.0 Â°C	15.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
	19.0 J/cmÂ²		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	3.00 J/cmÂ² @Temperature 23.0 Â°C	14.3 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)	96.0 Â°C	205 Â°F	80x10x4mm; ISO 75-2/Af
Vicat Softening Point	91.0 Â°C	196 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	6.00e+16 ohm-cm	6.00e+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
	58.0 kV/mm @Thickness 0.500 mm	1470 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
	0.0070 @Frequency 1e+6 Hz	0.0070 @Frequency 1e+6 Hz	Š 93x3mm; IEC 60250
Arc Resistance	73 sec	73 sec	Š 93x3mm; IEC 61621
Comparative Tracking Index	400 V	400 V	Solution A; Š 93x3mm; IEC 60112

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