

## SYNTHOS Forsan® 548 Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Easy flow, glossy, impact resistant. Applications: General purpose Various technical parts, household appliances, hobby and office 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-548-Acrylonitrile-Butadiene-Styrene-ABS.php](http://www.lookpolymers.com/polymer_SYNTHOS-Forsan-548-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	21 g/10 min @Load 10.0 kg, Temperature 220 °C	21 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; Å 50x4mm; ISO 2039-1
Tensile Strength at Break	30.0 MPa @Temperature 23.0 °C	4350 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Tensile Strength, Yield	38.0 MPa @Temperature 23.0 °C	5510 psi @Temperature 73.4 °F	50mm/min; ISO 527-2/1A/50
Elongation at Break	10 %	10 %	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	60.0 MPa @Temperature 23.0 °C	8700 psi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Flexural Modulus	2.10 GPa @Temperature 23.0 °C	305 ksi @Temperature 73.4 °F	2mm/min; 80x10x4mm; ISO 178
Izod Impact, Notched (ISO)	24.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	11.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 180/1A
	17.0 J/cm <sup>2</sup>	80.9 ft-lb/in <sup>2</sup>	

Charpy Impact Unnotched Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	80x10x4mm; ISO 179/1eU Comments
Charpy Impact, Notched	2.00 J/cm <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4mm, r=0.25; V-notch; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	99.0 °C	210 °F	80x10x4mm; ISO 75-2/af
Vicat Softening Point	95.0 °C	203 °F	50°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 °C	1200 °F	~ 93x3mm; IEC 60695-2-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	500V; ~ 93x3mm; IEC 60093
Surface Resistance	2.00e+16 ohm	2.00e+16 ohm	500V; ~ 93x3mm; IEC 60093
Dielectric Constant	<= 2.7 @Frequency 50 Hz	<= 2.7 @Frequency 50 Hz	~ 50x3mm; IEC 60250
	2.7 @Frequency 1e+6 Hz	2.7 @Frequency 1e+6 Hz	~ 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
	57.0 kV/mm @Thickness 0.500 mm	1450 kV/in @Thickness 0.0197 in	Transformer Oil; IEC 60243-1
Dissipation Factor	0.0040 @Frequency 50 Hz	0.0040 @Frequency 50 Hz	~ 93x3mm; IEC 60250
	0.0080 @Frequency 1e+6 Hz	0.0080 @Frequency 1e+6 Hz	~ 93x3mm; IEC 60250
Arc Resistance	89 sec	89 sec	~ 93x3mm; IEC 61621
Comparative Tracking Index	400 V	400 V	Solution A; ~ 93x3mm; IEC 60112

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