

Solvay TECHNYL® A 218 S40 Black 21 N PA66, 40% glass spheres, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

Material Notes:

Description: Polyamide 66, reinforced with 40% of glass spheres, heat stabilized, for injection molding. Available in: EuropeProduct

Applications: TECHNYL® A 218 S40 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. This grade is recommended for mechanical components which require a very good surface finish with low warpage, and good compression strength (bearing housings). This product is available in black. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218-S40-Black-21-N-PA66-40-glass-spheres-DRY.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183/A
Water Absorption	0.70 % @Temperature 23.0 °C, Time 86400 sec	0.70 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527 Type 1A
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527 type 1 A
Elongation at Break	15 %	15 %	ISO 527 Type 1A
Elongation at Yield	4.0 %	4.0 %	ISO 527 type 1 A
Tensile Modulus	5.00 GPa	725 ksi	ISO 527 Type 1A
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	4.70 GPa	682 ksi	ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	ISO 11359
Melting Point	263 $\text{Å}^\circ\text{C}$	505 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	100 $\text{Å}^\circ\text{C}$	212 $\text{Å}^\circ\text{F}$	ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210
Oxygen Index	26 %	26 %	ISO 4589
Glow Wire Test	650 $\text{Å}^\circ\text{C}$ @Thickness 1.60 mm	1200 $\text{Å}^\circ\text{F}$ @Thickness 0.0630 in	ISO 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	5.00e+13 ohm	5.00e+13 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	450 V	450 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 $\text{Å}^\circ\text{C}$	500 - 518 $\text{Å}^\circ\text{F}$	
Front Barrel Temperature	280 - 290 $\text{Å}^\circ\text{C}$	536 - 554 $\text{Å}^\circ\text{F}$	
Mold Temperature	60.0 - 80.0 $\text{Å}^\circ\text{C}$	140 - 176 $\text{Å}^\circ\text{F}$	
Drying Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	
Moisture Content	≤ 0.20 %	≤ 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280 $\text{Å}^\circ\text{C}$	

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