

## Solvay TECHNYL® A 216 S40 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, for injection molding. Available in: Europe  
 Product Applications: TECHNYL® A 216 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. This product is available in natural, black, and in special colors on request. 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-216-S40-PA66-40-glass-spheres-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-216-S40-PA66-40-glass-spheres-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	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 <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact Unnotched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties <i>CTE, linear, Parallel to Flow</i>	6.00 Åum/m-Å°C Metric	3.33 Åuin/in-Å°F English	Comments ISO 11359
	@Temperature 23.0 - 85.0 Å°C	@Temperature 73.4 - 185 Å°F	
Melting Point	263 Å°C	505 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	100 Å°C	212 Å°F	ISO 75/Af

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+13 ohm-cm	5.00e+13 ohm-cm	IEC 60093
Surface Resistance	5.00e+13 ohm	5.00e+13 ohm	IEC 60093
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	500 V	500 V	Solution B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Å°C	500 - 518 Å°F	
Front Barrel Temperature	280 - 290 Å°C	536 - 554 Å°F	
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280Å°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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