

Solvay TECHNYL® C 218 MZ20 V10 Black Z PA6, 20/10% mineral/glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Description: Polyamide PA6, reinforced 20 % mineral filler and 10 % of glass fiber, heat stabilized, for injection molding. Available in: Asia Pacific
Product Applications: TECHNYL C 218 MZ20 V10 offers an excellent planarity of the end product, high mechanical properties and a high dimensional stability. This grade is commonly used in the automotive industry to mould large parts with a low warpage, such as: car body parts, engine covers, housings. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-C-218-MZ20-V10-Black-Z-PA6-2010-mineralglass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183/A
Linear Mold Shrinkage	0.0057 cm/cm	0.0057 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0054 cm/cm	0.0054 in/in	
Linear Mold Shrinkage, Transverse	0.0095 cm/cm	0.0095 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527 Type 1A
Elongation at Break	3.3 %	3.3 %	ISO 527 Type 1A
Tensile Modulus	7.40 GPa	1070 ksi	ISO 527 Type 1A
Flexural Strength	255 MPa	37000 psi	ISO 178
Flexural Modulus	9.30 GPa	1350 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	82.0 kJ/m ²	39.0 ft-lb/in ²	ISO 180/1eU
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.41 J/cm ²	6.71 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	222 Â°C	432 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ISO 75/Af

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 240 Â°C	428 - 464 Â°F	
Front Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	230-250Â°C	

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