

Solvay TECHNYLSTAR[®],ç S 218 MZ20 V10 Black 2N PA6, 20% mineral, 10% glass filled, DRY

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

Material Notes:

Description: TECHNYL STAR Polyamide, 20% mineral filled and 10% of glass fiber reinforced, heat stabilized, for injection molding.

Characterized by a high fluidity of the melt. Available in: Europe and North America Product Applications: TECHNYLSTAR TM S 218 MZ20 V10 BLACK 2N is suitable for applications where a compromise of rigidity and dimensional stability is required, as engine cover. Due to its outstanding flow properties, the material easily fills the mould and the surface aspect of the finished part is excellent. 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-TECHNYLSTAR-S-218-MZ20-V10-Black-2N-PA6-20-mineral-10-glass-filled-DRY.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183/A
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0054 cm/cm	0.0054 in/in	
Linear Mold Shrinkage, Transverse	0.0108 cm/cm	0.0108 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527 Type 1A
Elongation at Break	2.8 %	2.8 %	ISO 527 Type 1A
Tensile Modulus	7.80 GPa	1130 ksi	ISO 527 Type 1A
Izod Impact, Notched (ISO)	3.70 kJ/m ²	1.76 ft-lb/in ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	ISO 180/1eU
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.340 J/cm ²	1.62 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)	186 Â°C	367 Â°F	ISO 75/Af

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 230 Â°C	428 - 446 Â°F	

Processing Properties	Metric	English	Comments
Mold Temperature	80.0 Â°C	176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Compression Zone	245-250Â°C	

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