

## Solvay TECHNYL® A 218 MT15 V 25 Black 21N PA66, 25/15% glass/mineral fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Mineral Filled

### Material Notes:

Description: Polyamide 66, reinforced with 25% of glass fiber and 15% of mineral filler, heat stabilized, for injection molding. Available in: Asia Pacific  
 Product Applications: TECHNYL® A 218 MT15 V25 is recommended in all industrial parts, offering a good combination between thermal and mechanical properties. This grade is commonly used in the automotive industry to mould large parts with a low warpage, such as: rocker cover, car body parts, engine covers. 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-MT15-V-25-Black-21N-PA66-2515-glassmineral-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218-MT15-V-25-Black-21N-PA66-2515-glassmineral-fiber-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ISO 1183/A
Water Absorption	1.4 % @Temperature 23.0 °C, Time 86400 sec	1.4 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0054 cm/cm	0.0054 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527 Type 1A
Elongation at Break	2.4 %	2.4 %	ISO 527 Type 1A
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527 Type 1A
Flexural Modulus	8.50 GPa	1230 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact Unnotched	4.50 J/cm <sup>2</sup>	21.4 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
CTE, linear, Parallel to Flow	35.0 µm/m-°C @Temperature 23.0 -	19.4 µin/in-°F @Temperature 73.4 -	ISO 11359

Thermal Properties	85.0 Å°C Metric	185 Å°F English	Comments
Melting Point	263 Å°C	505 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	240 Å°C	464 Å°F	ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+14 ohm-cm	3.00e+14 ohm-cm	IEC 60093
Surface Resistance	5.00e+13 ohm	5.00e+13 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	425 V	425 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 265 Å°C	500 - 509 Å°F	
Front Barrel Temperature	280 - 290 Å°C	536 - 554 Å°F	
Mold Temperature	80.0 - 100 Å°C	176 - 212 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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