

Solvay TECHNYL[®] A 238 Black 21 N PA66, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Unreinforced and modified polyamide 66, with improved impact resistance, heat stabilized, for injection molding. Available in: Europe
Product Applications: TECHNYL A 238 offers excellent combination between rigidity and impact resistance at ambient temperature. This property save special conditioning before use parts (water absorption). This grade is commonly used for under bonnet automobile parts , such as: fasteners, cable ties. 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-238-Black-21-N-PA66-DRY.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183/A
Water Absorption	1.1 % @Temperature 23.0 °C, Time 86400 sec	1.1 % @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	0.019 cm/cm	0.019 in/in	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527 Type 1A
Tensile Strength, Yield	70.0 MPa	10200 psi	ISO 527 type 1 A
Elongation at Break	30 %	30 %	ISO 527 Type 1A
Elongation at Yield	5.0 %	5.0 %	ISO 527 type 1 A
Tensile Modulus	2.55 GPa	370 ksi	ISO 527 Type 1A
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	2.25 GPa	326 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties <i>CTE, linear, Parallel to Flow</i>	70.0 Åum/m-Å°C Metric	38.9 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)	70.0 Å°C	158 Å°F	ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210
Oxygen Index	21 %	21 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	450 V	450 V	Solution B; IEC 60112
	500 V	500 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	240 - 250 Å°C	464 - 482 Å°F	
Front Barrel Temperature	260 - 270 Å°C	500 - 518 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	250-260Å°C	

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