

Solvay TECHNYL® B 238 Black 21 N PA66/6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Description: Unreinforced and modified copolyamide 66/6, heat stabilized, with improved impact resistance, for injection molding. Available in: Europe Product Applications: TECHNYL B 238 is particularly recommended for applications where high thermal stress rates and good impact resistance are required, also for parts which could break during assembly or parts used at low humidity level. This grade is commonly used in: automotive industry for under bonnet fasteners. 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-B-238-Black-21-N-PA666-DRY.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183/A
Water Absorption	1.35 % @Temperature 23.0 °C, Time 86400 sec	1.35 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0107 cm/cm	0.0107 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	
Linear Mold Shrinkage, Transverse	0.0205 cm/cm	0.0205 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527 Type 1A
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527 type 1 A
Elongation at Break	50 %	50 %	ISO 527 Type 1A
Elongation at Yield	5.0 %	5.0 %	ISO 527 type 1 A
Tensile Modulus	2.30 GPa	334 ksi	ISO 527 Type 1A
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 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
CTE, linear, Parallel to Flow	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359
	@Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	
Melting Point	242 $\text{Å}^\circ\text{C}$	468 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	62.0 $\text{Å}^\circ\text{C}$	144 $\text{Å}^\circ\text{F}$	ISO 75/Af
Flammability, UL94	HB	HB	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	21 %	21 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	5.00e+13 ohm	5.00e+13 ohm	IEC 60093
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60243
Dissipation Factor	0.070	0.070	IEC 60250
Comparative Tracking Index	475 V	475 V	Solution B; IEC 60112
	500 V	500 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	240 - 250 $\text{Å}^\circ\text{C}$	464 - 482 $\text{Å}^\circ\text{F}$	
Front Barrel Temperature	260 - 270 $\text{Å}^\circ\text{C}$	500 - 518 $\text{Å}^\circ\text{F}$	
Mold Temperature	60.0 - 80.0 $\text{Å}^\circ\text{C}$	140 - 176 $\text{Å}^\circ\text{F}$	
Drying Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	
Moisture Content	≤ 0.20 %	≤ 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	250-260 $\text{Å}^\circ\text{C}$	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China