

Solvay TECHNYLÂ® C 442 Black V PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Description: Unreinforced polyamide PA6, high viscosity, with high flexibility and very high impact resistance even at low temperature, for extrusion. Available in: Europe Product Applications: It has high flexibility and very high impact strength. It is specially available for pipes extrusion. 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-442-Black-V-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/inÂ³	ISO 1183/A
Water Absorption	1.15 %	1.15 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	ISO 527 type 1 A
Elongation at Break	220 %	220 %	ISO 527 Type 1A
Tensile Modulus	0.900 GPa	131 ksi	ISO 527 Type 1A
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	0.850 GPa	123 ksi	ISO 178
Izod Impact, Notched (ISO)	85.0 kJ/mÂ²	40.4 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	NB	NB	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ISO 11359
	@Temperature 23.0 - 85.0 Â°C	@Temperature 73.4 - 185 Â°F	
Melting Point	222 Â°C	432 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	ISO 75/Af

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.00e+15 ohm-cm Metric	1.00e+15 ohm-cm English	IEC 60093 Comments
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
Dissipation Factor	0.020	0.020	IEC 60250

Processing Properties	Metric	English	Comments
Feed Temperature	200 - 210 Â°C	392 - 410 Â°F	
Front Barrel Temperature	210 - 220 Â°C	410 - 428 Â°F	
Die Temperature	220 - 230 Â°C	428 - 446 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	210-220Â°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