

Solvay TECHNYLÂ® 27010ST PA66, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Polyamide 66, with very high impact resistance even at low temperature, for injection molding. Available in: Asia

Pacific Product Applications: TECHNYLÂ® 2710ST is used in all sector of industry, offering an excellent productivity. This grade is widely used for: Sports and leisure applications for shoe soles, ski components, ski and surf bindings; Toy applications, such as, the bumper of a remote-controlled car and Battery gaskets, Fastener. This product is available in available in natural, black and in colors on request. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-27010ST-PA66-DRY.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/inÂ³	ISO 1183
Water Absorption	1.05 % @Temperature 23.0 Â°C, Time 86400 sec	1.05 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
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
Hardness, Rockwell R	115	115	ASTM D786
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Izod Impact, Notched	9.50 J/cm	17.8 ft-lb/in	ASTM D265

Thermal Properties	Metric	English	Comments
CTE, linear	12.6 Âµm/m-Â°C @Temperature 23.0 - 85.0 Â°C	7.00 Âµin/in-Â°F @Temperature 73.4 - 185 Â°F	ASTM D696
Melting Point	262 Â°C	504 Â°F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	222 Â°C	432 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Â°C	158 Â°F	ASTM D648
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	ISO 1210

Thermal Properties	Metric	English	Comments
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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	IEC60250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	450 V	450 V	Solution B; IEC 60112
	575 V	575 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	265 - 270 Â°C	509 - 518 Â°F	
Front Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280Â°C	

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