

Solvay TECHNYL® 1021ST PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Description: Polyamide 6, unfilled, super tough impact modified, for injection molding Available in: Asia Pacific Product Applications: TECHNYL® 1021ST has the highest level impact strength and balanced mechanical properties. It is suitable for all sectors industries such as: Bowling pin, Brake drum, Inline skate part. This product is available natural 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-1021ST-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Water Absorption	1.2 % @Temperature 23.0 °C, Time 86400 sec	1.2 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D786
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Flexural Strength	65.0 MPa	9430 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	11.0 J/cm	20.6 ft-lb/in	ASTM D265

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ASTM D648
Flammability, UL94	HB	HB	ISO 1210

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	235 - 240 °C	455 - 464 °F	
Front Barrel Temperature	250 - 260 °C	482 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	245-350°C	

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