

Solvay TECHNYLÂ® C 236SI PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Description: Unreinforced polyamide 6 with high impact strength for injection molding. Available in: Europe and North America

Product Applications: TECHNYLÂ® C 236SI has high impact strength and flexibility. This grade is suitable for power tools, sports goods, furniture and machine components. This product is 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-C-236SI-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/inÂ³	ISO 1183/A
Water Absorption	1.27 % @Temperature 23.0 Â°C, Time 86400 sec	1.27 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0099 cm/cm	0.0099 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0146 cm/cm	0.0146 in/in	ISO 294-4
	0.0206 cm/cm	0.0206 in/in	
Linear Mold Shrinkage, Transverse	0.0186 cm/cm	0.0186 in/in	ISO 294-4
	0.0207 cm/cm	0.0207 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ISO 527 Type 1A
Tensile Strength, Yield	54.0 MPa	7830 psi	ISO 527 type 1 A
Elongation at Break	55 %	55 %	ISO 527 Type 1A
Elongation at Yield	4.0 %	4.0 %	ISO 527 type 1 A
Tensile Modulus	2.20 GPa	319 ksi	ISO 527 Type 1A
Flexural Strength	77.0 MPa	11200 psi	ISO 178
Flexural Modulus	1.93 GPa	280 ksi	ISO 178
Izod Impact, Notched (ISO)	66.0 kJ/mÂ²	31.4 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	1.60 J/cmÂ²	7.61 ft-lb/inÂ²	

Mechanical Properties	Metric	English	Comments
	@ Temperature -30.0 Â°C	@ Temperature -22.0 Â°F	
	7.60 J/cmÂ²	36.2 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	56.0 Â°C	133 Â°F	ISO 75/Af

Processing Properties	Metric	English	Comments
Feed Temperature	240 - 280 Â°C	464 - 536 Â°F	
Front Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	
Mold Temperature	80.0 Â°C	176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	240-280Â°C	

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