

Solvay TECHNYLÂ® eXten D 458P PA6.10, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

Description: Product in development - provisional datasheet. High viscosity unfilled plasticized PA6.10 for extrusion applications providing low end part warpage. Available in: Asia Pacific, Europe, Latin America and North America Product Applications: Polyamide 6,10 for extrusion, where high flexibility and toughness are requested, especially low temperature toughness. TECHNYLÂ® eXten D 458P is specially developed for automotive and other applications where a long term high temperature usage is requested. This material is available in black and natural. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-eXten-D-458P-PA610-DRY.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/inÂ³	ISO 1183/A

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 527 Type 1A
Elongation at Break	150 %	150 %	ISO 527 Type 1A
Tensile Modulus	0.800 GPa	116 ksi	ISO 527 Type 1A
Flexural Strength	30.0 MPa	4350 psi	ISO 178
Flexural Modulus	0.690 GPa	100 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	8.70 J/cmÂ²	41.4 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Melting Point	215 Â°C	419 Â°F	ISO 11357
Flammability, UL94	HB	HB	ISO 1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	ISO 1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Thermal Properties	^{HB} Metric	^{HB} English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	ISO 1210

Processing Properties	Metric	English	Comments
Feed Temperature	215 - 225 Â°C	419 - 437 Â°F	
Front Barrel Temperature	225 - 235 Â°C	437 - 455 Â°F	
Die Temperature	230 - 240 Â°C	446 - 464 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	

Descriptive Properties	Value	Comments
Compression Zone	225-235Â°C	

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