

Solvay TECHNYLÂ® eXten D 437P PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

Description: TECHNYLÂ® eXten D 437P is a high viscosity, unfilled, plasticized, UV and heat stabilized PA6.10 for extrusion applications. TechnylÂ® eXten D 437P is a partially biosourced material. This material is available in natural. Benefits: This polyamide 6,10 for extrusion is specially performing where high flexibility and toughness are requested. It is specially developed for automotive and other applications where a long term high temperature usage is requested. Key Properties: Translucency; UV stabilized; High impact at low temperature and High flexibility Available in: Asia Pacific, Europe, Latin America and North America Regulations compliance: Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC This grade complies with RoHS directive 2002/95/EC Unless specified, this grade is not suitable for food contact, medical devices or toy applications Applications: Extrusion pipes and tubing applications. 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-437P-PA610.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/inÂ³	ISO 1183/A
Water Absorption	1.9 %	1.9 %	at saturation; ISO 62
	0.65 %	0.65 %	
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	ISO 527 Type 1A
Elongation at Break	215 %	215 %	ISO 527 Type 1A
Tensile Modulus	0.830 GPa	120 ksi	ISO 527 Type 1A
Flexural Strength	25.0 MPa	3630 psi	ISO 178
Flexural Modulus	0.570 GPa	82.7 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	NB	NB	ISO 179/1eU
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.350 J/cmÂ²	1.67 ft-lb/inÂ²	ISO 179/1eA

Mechanical Properties	@Temperature -30.0 Metric °C	@Temperature -22.0 English °F	Comments
	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	215 °C	419 °F	ISO 11357

Processing Properties	Metric	English	Comments
Front Barrel Temperature	215 - 235 °C	419 - 455 °F	
Die Temperature	210 - 230 °C	410 - 446 °F	
Moisture Content	<= 0.10 %	<= 0.10 %	

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