

## Solvay TECHNYLÂ® C 536XT PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Extruded

### Material Notes:

Description: TECHNYLÂ® C 536XT is an unreinforced polyamide 6, high viscosity, for extrusion blow molding. This product is available in natural color. Benefits: The product offers a good processing behavior, high impact resistance even at low temperature and high barrier properties especially to fluids such as fuels and oils, as well as a high toughness. Available in: Europe 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: This grade is particularly recommended for use in applications such as tanks or pipes. 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-536XT-PA6-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-C-536XT-PA6-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/inÂ³	ISO 1183/A
Water Absorption	1.27 %	1.27 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Viscosity	220 cP	220 cP	
	@Shear Rate 1000 1/s, Temperature 270 Â°C	@Shear Rate 1000 1/s, Temperature 518 Â°F	
	1050 cP	1050 cP	
	@Shear Rate 100 1/s, Temperature 270 Â°C	@Shear Rate 100 1/s, Temperature 518 Â°F	
	2200 cP	2200 cP	
	@Shear Rate 10.0 1/s, Temperature 270 Â°C	@Shear Rate 10.0 1/s, Temperature 518 Â°F	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0206 cm/cm	0.0206 in/in	
Linear Mold Shrinkage, Transverse	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

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.20 GPa	319 ksi	ISO 527 Type 1A
Flexural Modulus	1.95 GPa	283 ksi	ISO 178
Izod Impact, Notched (ISO)	66.0 kJ/m <sup>2</sup>	31.4 ft-lb/in <sup>2</sup>	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.60 J/cm <sup>2</sup>	36.2 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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

Processing Properties	Metric	English	Comments
Feed Temperature	200 - 220 °C	392 - 428 °F	
Adapter Temperature	210 - 230 °C	410 - 446 °F	
Die Temperature	215 - 230 °C	419 - 446 °F	
Head Temperature	220 - 230 °C	428 - 446 °F	
Screw Cooling Temperature	210 - 230 °C	410 - 446 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	
Drying Temperature	80.0 °C	176 °F	dew point -35°C
	@Time 28800 sec	@Time 8.00 hour	
Moisture Content	<= 0.080 %	<= 0.080 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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