

TECHNYL® eXten D 437P NATURAL

Polyamide 610
Solvay Engineering Plastics

Message:

TECHNYL® eXten D 437P Natural is a high viscosity, unfilled, plasticized, UV and heat stabilized PA6.10 for extrusion applications. Technyl® eXten D 437P is a partially biosourced material. This material is available in natural.

General Information				
Additive		Heat Stabilizer		
		UV Stabilizer		
Features		Good Flexibility		
		Heat Stabilized		
		High Impact Resistance		
		High Viscosity		
		Low Temperature Impact Resistance		
		Renewable Resource Content		
Uses		Piping		
		Tubing		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
		Translucent		
Processing Method		Extrusion		
Part Marking Code (ISO 11469)		>PA610-I<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	2.3	--	%	
Flow	2.4	--	%	
Water Absorption				ISO 62
23°C, 24 hr	0.65	--	%	
Saturation, 23°C	1.9	--	%	
Molding Shrinkage Isotropy	1.04	--		
				Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	890	830	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A

Yield	40.0	--	MPa	
Break	50.0	11.0	MPa	
Tensile Strain (Break)	220	220	%	ISO 527-2/1A
Flexural Modulus	720	570	MPa	ISO 178
Flexural Stress	33.0	25.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	3.5	kJ/m ²	
23°C	25	55	kJ/m ²	
Charpy Unnotched Impact Strength				
-30°C	No Break	No Break		ISO 179/1fU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	215	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
3.20 mm	HB	--		
Extrusion	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	8.0		hr	
Suggested Max Moisture	0.10		%	
Cylinder Zone 1 Temp.	200 to 220		°C	
Cylinder Zone 3 Temp.	210 to 230		°C	
Cylinder Zone 5 Temp.	215 to 235		°C	
Die Temperature	210 to 230		°C	

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Recommended distributors for this material

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