

TECHNYL® eXten D 458P BLACK

Polyamide 610
Solvay Engineering Plastics

Message:

TECHNYL® eXten D 458P is a high viscosity unfilled plasticized PA6.10 for extrusion applications. The product is also UV stabilized. It is a partially bio-sourced material. It is available in natural and black colors.

General Information				
Additive	Plasticizer			
	UV Stabilizer			
Features	Good Flexibility			
	High Viscosity			
	Low Temperature Impact Resistance			
	Low Warpage			
	Plasticized			
	Renewable Resource Content			
	Ultra High Toughness			
Uses	Automotive Applications			
Agency Ratings	UU 453/2010/EC			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
	Natural Color			
Processing Method	Injection Molding			
Part Marking Code (ISO 11469)	>PA610-I<			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	3.1	--	%	
Flow	3.5	--	%	
Water Absorption				ISO 62
23°C, 24 hr	0.46	--	%	
Saturation, 23°C	1.8	--	%	
Molding Shrinkage Isotropy	1.16	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	800	550	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	35.0	--	MPa	

Break	40.0	34.0	MPa	
Tensile Strain (Break)	150	240	%	ISO 527-2/1A
Flexural Modulus	690	530	MPa	ISO 178
Flexural Stress	30.0	22.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	19	kJ/m ²	
23°C	87	120	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	51.0	--	°C	ISO 75-2/Af
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.	205 to 225		°C	
Cylinder Zone 3 Temp.	215 to 235		°C	
Cylinder Zone 5 Temp.	220 to 240		°C	
Die Temperature	215 to 235		°C	

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