

TECHNYL® eXten D 458P NATURAL

Polyamide 610
Solvay Engineering Plastics

Message:
Product in development - provisional datasheet.
High viscosity unfilled plasticized PA6.10 for extrusion applications providing low end part warpage.

General Information				
Additive		Plasticizer		
Features	Good Flexibility			
	High Heat Resistance			
	High Viscosity			
	Low Temperature Impact Resistance			
	Low Warpage			
	Plasticized			
	Renewable Resource Content			
Uses		Automotive Applications		
Appearance	Black			
	Natural Color			
Processing Method		Extrusion		
Part Marking Code (ISO 11469)		>PA6.10<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm³	ISO 1183/A
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
--	87	120	kJ/m²	
-30°C	15	19	kJ/m²	
Charpy Unnotched Impact Strength (-30°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	
Suggested Max Moisture	0.10		%	
Cylinder Zone 1 Temp.	215 to 225		°C	
Cylinder Zone 3 Temp.	225 to 235		°C	
Cylinder Zone 5 Temp.	225 to 235		°C	
Die Temperature	230 to 240		°C	

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