

VENYL SE032 - 8428

Polyamide 6

AD majoris

Message:

VENYL SE032 - 8428 is a high impact resistance reinforced polyamide 6 with detergent additives intended for Injection moulding.

APPLICATIONS

VENYL SE032 - 8428 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL SE032 - 8428 is available in natural (VENYL SE032) and other colours can be provided on request.

General Information				
Features	High Impact Resistance			
	Recyclable Material			
Uses	Automotive Applications			
	Electrical Parts			
Appearance	Colors Available			
	Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Molding Shrinkage	1.0 to 2.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.7 to 2.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1550	650	MPa	ISO 527-2
Tensile Stress (Break)	45.0	35.0	MPa	ISO 527-2
Tensile Strain (Break)	70	240	%	ISO 527-2
Flexural Modulus	1300	600	MPa	ISO 178
Flexural Stress	50.0	35.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	30	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break	--		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	155	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A

Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	DIN 53482
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Rear Temperature	230 to 240		°C	
Middle Temperature	235 to 240		°C	
Front Temperature	235 to 240		°C	
Nozzle Temperature	220 to 265		°C	
Mold Temperature	45.0 to 65.0		°C	
Injection Pressure	70.0 to 90.0		MPa	
Injection Rate	Fast			
Holding Pressure	35.0 to 60.0		MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0			

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