

VENYL ST401

Polyamide 6

AD majoris

Message:

VENYL ST401 is a polyamide 6 with 40 % mineral and heat stabilized, intended for Injection moulding.

APPLICATIONS

VENYL ST401 has been developed especially for very demanding applications in automotive industry and electrical parts.

VENYL ST401 is available in both natural and black (VENYL ST401-8229) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	Recyclable Material		
Uses	Automotive Applications		
	Electrical Parts		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Molding Shrinkage	0.90	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6300	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	8.0	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	75	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	200	°C	ISO 75-2/B

1.8 MPa, Unannealed	165	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	DIN 53482
Volume Resistivity	1.0E+14	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Rear Temperature	265 to 280	°C	
Middle Temperature	255 to 270	°C	
Front Temperature	255 to 270	°C	
Nozzle Temperature	240 to 275	°C	
Mold Temperature	60.0 to 100	°C	
Injection Pressure	60.0 to 90.0	MPa	
Injection Rate	Fast		
Holding Pressure	50.0 to 70.0	MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0		

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