

VENYL UT400

Polyamide 66

AD majoris

Message:

VENYL UT400 is a 40% mineral filled polyamide 66 intended for Injection moulding.

APPLICATIONS

VENYL UT400 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties, this product offers reduced shrinkage, increased dimensional stability.

VENYL UT400 is available in both black standard (VENYL UT400 - 8229) and natural (VENYL UT400) but other colours can be provided on request.

General Information				
Filler / Reinforcement		Mineral,40% Filler by Weight		
Features		Good Dimensional Stability		
		Low Shrinkage		
		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Black		
		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm ³	ISO 1183
Molding Shrinkage	0.60 to 1.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
L-Scale	100	82		
M-Scale	80	53		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7500	5000	MPa	ISO 527-2
Tensile Stress (Break)	80.0	55.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	6.0	%	ISO 527-2
Flexural Modulus	5500	4000	MPa	ISO 178
Flexural Stress	135	105	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength	4.0	7.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	25	35	kJ/m ²	ISO 179
Notched Izod Impact	50	70	J/m	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	245	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	212	--	°C	ISO 75-2/A
Melting Temperature (DSC)	256	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	DIN 53482
Volume Resistivity	1.0E+14	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	285 to 300		°C	
Middle Temperature	280 to 295		°C	
Front Temperature	275 to 290		°C	
Nozzle Temperature	265 to 280		°C	
Mold Temperature	90.0 to 120		°C	
Injection Pressure	85.0 to 110		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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