

VENYL SE010 - 8696

Polyamide 6

AD majoris

Message:

VENYL SE010 - 8696 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in Europe.

Characteristics include:

Flame Rated

Eco-Friendly/Green

General Information				
Features		Recyclable Material		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage	0.60 to 1.6	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.9 to 3.1	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (L-Scale)	98	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2600	900	MPa	ISO 527-2
Tensile Stress (Break)	75.0	55.0	MPa	ISO 527-2
Tensile Strain (Break)	55	210	%	ISO 527-2
Flexural Modulus	2200	800	MPa	ISO 178
Flexural Stress	115	55.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	25	--	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	165	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.0	--	°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		
Rear Temperature	250 to 270		°C	
Middle Temperature	240 to 255		°C	
Front Temperature	240 to 255		°C	
Nozzle Temperature	220 to 265		°C	
Mold Temperature	50.0 to 70.0		°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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