

VENYL SE037 - 1731

Polyamide 6

AD majoris

Message:

VENYL SE037 - 1731 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	1.10	--	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	1700	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	1600	600	MPa	ISO 178
Flexural Stress	130	65.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	40	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
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		

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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