

VENYL SN050

Polyamide 6

AD majoris

Message:

VENYL SN050 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	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Molding Shrinkage	0.50 to 1.5	%	
Water Absorption (23°C, 24 hr)	2.8	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	45 to 55	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	130 to 145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0 to 8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Rear Temperature	250 to 270	°C	
Middle Temperature	240 to 255	°C	
Front Temperature	240 to 255	°C	
Nozzle Temperature	225 to 270	°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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