

VENYL VN007 - 8139

Polyamide 66/6 Copolymer

AD majoris

Message:

VENYL VN007 - 8139 is a coloured polyamide 66/6 intended for Injection moulding.

APPLICATIONS

VENYL VN007 - 8139 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL VN007 - 8139 is available in both beige but other colours can be provided on request.

General Information				
Features		Copolymer		
		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Beige		
		Colors Available		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage	0.80 to 1.5	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2800	1000	MPa	ISO 527-2
Tensile Stress (Break)	85.0	55.0	MPa	ISO 527-2
Tensile Strain (Break)	50	250	%	ISO 527-2
Flexural Modulus	2800	900	MPa	ISO 178
Flexural Stress	135	65.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	> 200	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/A

Melting Temperature (DSC)	242	--	°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		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Rear Temperature	260 to 280		°C	
Middle Temperature	250 to 265		°C	
Front Temperature	250 to 265		°C	
Mold Temperature	60.0 to 80.0		°C	
Injection Pressure	60.0 to 100		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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