VENYL UE020

Polyamide 66

AD majoris

Message:

VENYL UE020 is an unreinforced polyamide 66 with improved impact resistance intended for Injection moulding.
APPLICATIONS
VENYL UE020 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between rigidity and impact resistance at room temperature. It allows to avoid the conditioning of the part before use (low moisture absorption).
VENYL UE020 is available in both natural and black (VENYL UE020 BLACK 8229) but other colours can be provided on request.

General Information	
Features	Low Moisture Absorption 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	1.11	--	g/cm³	ISO 1183
Molding Shrinkage	1.4 to 2.3	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2 to 2.5	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (L-Scale)	100	85		ASTM D785

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000 to 3500	1400 to 1600	MPa	ISO 527-2
Tensile Stress (Break)	65.0 to 75.0	50.0 to 55.0	MPa	ISO 527-2
Tensile Strain (Yield)	15	40	%	ISO 527-2
Flexural Modulus	1900 to 2100	950 to 1100	MPa	ISO 178
Flexural Stress	100 to 120	55.0 to 65.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11 to 17	50 to 70	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179

Notched Izod Impact	160 to 200 J/m	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	100	--	°C	ISO 75-2/A
Melting Temperature (DSC)	256	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	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
Oxygen Index	22	--	%	ISO 4589-2
Injection	Dry	Unit		
Rear Temperature	260 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	275 to 290		°C	
Nozzle Temperature	265 to 280		°C	
Mold Temperature	60.0 to 90.0		°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			

Recommended distributors for this material

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