VENYL UE030

Polyamide 66

AD majoris

Message:

VENYL UE030 is an unreinforced polyamide 66 with improved impact resistance intended for Injection moulding.
APPLICATIONS
VENYL UE030 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between rigidity and high impact resistance at room temperature. It allows to avoid the conditioning of the part before use (low moisture absorption).
VENYL UE030 is available in both natural and black (VENYL UE030 BLACK 8229) but other colours can be provided on request.

General Information	
Features	High Impact Resistance High Rigidity 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	1.10	--	g/cm³	ISO 1183
Molding Shrinkage	1.6 to 2.3	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2 to 2.4	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	1350	MPa	ISO 527-2
Tensile Stress (Break)	50.0 to 55.0	40.0 to 45.0	MPa	ISO 527-2
Tensile Strain (Break)	13 to 45	170 to 220	%	ISO 527-2
Flexural Modulus	1700 to 1900	900 to 1000	MPa	ISO 178
Flexural Stress	60.0 to 70.0	30.0 to 40.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	80 to 85	100 to 110	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	75 to 80	90 to 100	J/m	ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	213	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°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**		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Rear Temperature	270 to 285		°C	
Middle Temperature	265 to 280		°C	
Front Temperature	260 to 275		°C	
Nozzle Temperature	260 to 275		°C	
Mold Temperature	75.0 to 85.0		°C	
Injection Pressure	60.0 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			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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