

VENYL UGK306 - 8229

Polyamide 66

AD majoris

Message:

VENYL UGK306 - 8229 is a glass fibre reinforced polyamide 66 (nanotechnologies) with improved electrical properties intended for Injection moulding.

APPLICATIONS

VENYL UGK306 - 8229 has been developed especially for demanding applications for good resistant final parts and rigidity combined with good electrical conductivity.

Products requiring excellent combination between electrical and mechanical properties.

VENYL UGK306 - 8229 is only available in black.

General Information				
Filler / Reinforcement		Glass Fiber		
Features		Electrically Conductive		
		High Rigidity		
		Recyclable Material		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.70	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10200	10800	MPa	ISO 527-2
Tensile Stress (Break)	190	184	MPa	ISO 527-2
Flexural Modulus	9610	9400	MPa	ISO 178
Flexural Stress	308	303	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	9.0	9.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	50 to 62	57 to 61	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	270	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	254	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+6 to 1.0E+7	--	ohms	DIN 53482
Volume Resistivity	1.0E+2 to 1.0E+3	--	ohms · cm	DIN 53482

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	750	--	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	4.0		hr	
Rear Temperature	295 to 310		°C	
Middle Temperature	290 to 305		°C	
Front Temperature	290 to 310		°C	
Nozzle Temperature	290 to 310		°C	
Mold Temperature	90.0 to 100		°C	
Injection Pressure	85.0 to 110		MPa	
Injection Rate	Fast			
Holding Pressure	50.0 to 70.0		MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0			

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