

DISTRUMID EC6 GF30

Polyamide 6

Distrupol

Message:

DISTRUMID EC6 GF30 is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Europe for injection molding. Primary attribute of DISTRUMID EC6 GF30: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage (23°C)	0.25 to 0.55	%	ISO 2577
Water Absorption (Saturation, 23°C)	6.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	140	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Flexural Modulus ¹ (23°C)	5800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Vicat Softening Temperature	210	°C	ISO 306/B50
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 85.0	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Regrind	20	%	
Processing (Melt) Temp	235 to 275	°C	

Mold Temperature	70.0 to 120	°C
Back Pressure	0.300 to 0.500	MPa
NOTE		
1.	2.0 mm/min	

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