

DISTRUMID 6 HI

Polyamide 6

Distrupol

Message:

Polyamide 6, high impact resistance, for injection moulding.

General Information			
Features	Impact resistance, high		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Molding Shrinkage (23°C)	2.0 - 2.4	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1900	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	50	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	50	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	200	°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
Additional Information			
The value listed as Mold Shrinkage ISO 294-4, was tested in accordance with ISO 2577.Melting Point, DSC: 220 ± 2 °CTensile Strain at Break, ISO 527, 23°C, 50 mm/min: >50%			
Injection	Nominal Value	Unit	
Drying Temperature	75.0 - 95.0	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	230 - 260	°C	
Mold Temperature	60.0 - 80.0	°C	
Back Pressure	0.300 - 0.500	MPa	

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