

DISTRUMID 6 HI LT

Polyamide 6

Distrupol

Message:

Polyamide 6, high impact resistance also at low temperatures, for injection moulding.

General Information			
Features	Impact resistance, high		
	Low temperature impact resistance		
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 527-2/500
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 Molding 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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