

ResMart Ultra Nylon 6 6

Polyamide 66

ResMart

Message:

High performance polyamid 6 6 for injection molding and extrusion applications (Natural)

General Information			
Agency Ratings	FDA not rated		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 3.18mm	1.3 - 1.7	%	ASTM D955
Vertical flow direction	1.8	%	ISO 294-4
Water Absorption (Saturation)	1.9	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	82.0	MPa	ISO 527-2
--	82.7	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790, ISO 178
Flexural Strength			
--	103	MPa	ASTM D790
--	94.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	No Break		ISO 179
Notched Izod Impact			
23°C, 3.18 mm	120	J/m	ASTM D256
23°C	4.7	kJ/m²	ISO 180
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	200	°C	ASTM D648, ISO 75-2/B

Flammability	Nominal Value	Test Method
Flame Rating (0.711 mm)	V-2	UL 94

Injection	Nominal Value	Unit
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Drying Temperature - Desiccant Dryer	82.2	°C
Drying Time - Desiccant Dryer	3.0 - 4.0	hr
Suggested Max Moisture	0.18	%
Processing (Melt) Temp	277 - 299	°C
Mold Temperature	48.9 - 90.6	°C
Injection Pressure	68.9 - 103	MPa

Injection instructions

Dew Point: 0°F

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