

ResMart Ultra Nylon 6

Polyamide 6

ResMart

Message:

High performance nylon 6 for the most demanding applications

General Information			
Agency Ratings	FDA not rated		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.3 - 1.7	%	ASTM D955
Water Absorption (Saturation)	1.9	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Break)	> 10	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	171	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	82.2	°C	
Drying Time - Desiccant Dryer	2.0	hr	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	243 - 279	°C	
Mold Temperature	54.4 - 93.3	°C	
Injection Pressure	68.9 - 103	MPa	
Injection instructions			

Dew Point: 0°F

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