

ResMart Plus 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		
Appearance	Natural color		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	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	81.0	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	2880	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	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)	200	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (0.711 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
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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