

Polifil® Nylon 730

Polyamide 6

The Plastics Group

Message:

Polifil® Nylon 730 is a Polyamide 6 (Nylon 6) product. It is available in North America. Typical application: Housings.

General Information			
Uses	Housings		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.2	%	ASTM D955
Water Absorption			ASTM D570
24 hr	1.6	%	
Saturation	9.6	%	
Equilibrium, 23°C, 50% RH	2.8	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	75.2	MPa	ASTM D638
Tensile Elongation (Break)	65	%	ASTM D638
Flexural Modulus	2480	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	179	°C	
1.8 MPa, Unannealed	56.1	°C	
Melting Temperature	210	°C	
Injection	Nominal Value	Unit	
Rear Temperature	221 to 243	°C	
Middle Temperature	227 to 260	°C	
Front Temperature	238 to 271	°C	
Nozzle Temperature	232 to 260	°C	
Processing (Melt) Temp	238 to 271	°C	
Injection Rate	Moderate-Fast		

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