

Polifil® Nylon 627

Polyamide 66

The Plastics Group

Message:

Polifil® Nylon 627 is a Polyamide 66 (Nylon 66) product. It is available in North America. Typical application: Housings.

General Information			
Uses	Housings		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.6	%	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	44.8	MPa	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	1520	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	193	°C	
1.8 MPa, Unannealed	60.0	°C	
Melting Temperature	249	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Constant (1 MHz)	3.30		ASTM D150
Injection	Nominal Value	Unit	
Rear Temperature	293	°C	
Middle Temperature	279	°C	
Front Temperature	274	°C	
Nozzle Temperature	260 to 299	°C	
Processing (Melt) Temp	288 to 293	°C	
Injection Rate	Moderate		

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