

Polifil® PP RP-PP Copolymer

Polypropylene Copolymer

The Plastics Group

Message:

Polifil® Nylon 6/6 combines good abrasion and chemical resistance. These properties have been proven to work in the following applications: valves, bearings, and bearing cages. Standard processing techniques are applicable. Use this information as a guide to aid you in selecting the proper resin for your application. TPG will custom compound and fine-tune our formulations for your application.

General Information			
Recycled Content	Yes		
Features	Copolymer		
	Good Impact Resistance		
	High Stiffness		
Uses	Appliances		
	Automotive Applications		
	Household Goods		
Forms	Pellets, Reprocessed		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	2.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D1415
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1380	MPa	ASTM D638
Tensile Strength (23°C)	31.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	11	%	
Break, 23°C	50	%	
Flexural Modulus - Tangent (23°C)	1240	MPa	ASTM D790
Flexural Strength (23°C)	41.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Gardner Impact (23°C, 12.7 mm)	2.71	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	93.3	°C	

1.8 MPa, Unannealed

48.9

°C

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