

RC Plastics RCPA6

Polyamide 6
RC Plastics, Inc. (Div. of LNP Engineering Plastics)

Message:

RC Plastics RCPA6 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America. Primary characteristic: eco-friendly/green.

General Information			
Recycled Content	Yes		
Forms	Pellets		
Processing Method	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 to 1.6	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	73.2	MPa	ASTM D638
Tensile Elongation (Break)	72	%	ASTM D638
Flexural Modulus	2480	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	69.4	°C	ASTM D648
Melting Temperature	216	°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	249 to 288	°C	
Middle Temperature	249 to 288	°C	
Front Temperature	249 to 288	°C	
Processing (Melt) Temp	266 to 277	°C	
Mold Temperature	87.8 to 93.3	°C	
Injection Rate	Fast		
Back Pressure	0.00 to 0.689	MPa	
Screw Speed	30 to 60	rpm	

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