

Nypol® PA A3 BRC0003 NR344

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Nylon 66 in color white, with good set of mechanical properties, good set of thermal properties. Ideal for injection molding.

General Information				
Appearance	White			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 66<			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.5 to 2.0	--	%	ASTM D955
Water Absorption (Equilibrium)	1.3	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	104		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	85.0	61.0	MPa	ASTM D638
Tensile Elongation (Break)	30	40	%	ASTM D638
Flexural Modulus	2750	1800	MPa	ASTM D790
Flexural Strength	100	65.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	50	60	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.0	--	°C	ASTM D648
Melting Temperature	250 to 265	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	1.0E+13	ohms·cm	ASTM D257
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.020		%	
Processing (Melt) Temp	260 to 280		°C	
Mold Temperature	70.0 to 100		°C	

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