

Nypol® PA B3 D40 PRTA010 NT397 MSP

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

Message:

Nylon 6 in the black color, reinforced with 40% aluminum silicate, ideal for injection molding, good set of thermal properties, electrical and mechanical.

General Information				
Filler / Reinforcement	Aluminum Silicate,40% Filler by Weight			
Features	Good Electrical Properties			
Appearance	Black			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 6 D40<			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.42 to 1.45	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.20	--	%	ASTM D955
Ash Content	38 to 42	--	%	ASTM D2584
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4500	2250	MPa	ASTM D638
Tensile Strength	250	157	MPa	ASTM D638
Tensile Elongation (Break)	7.0	9.0	%	ASTM D638
Flexural Modulus	17800	--	MPa	ASTM D790
Flexural Strength	78.0	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (Area)	--	13.6	kJ/m ²	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	--	°C	ASTM D648
Melting Temperature	210 to 225	--	°C	ASTM D2117
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	2.0		hr	
Suggested Max Moisture	0.020		%	
Processing (Melt) Temp	220 to 240		°C	
Mold Temperature	60.0 to 80.0		°C	

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