

Nypol® PA B3 D40 NTLA010 NT394

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

Message:

Natural Nylon 6 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		
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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