

Nypol® PA A3 G10 NTLA010 NR452

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 natural reinforced with 10% of fiberglass, good set of thermal and mechanical properties. Ideal for injection molding.

General Information				
Filler / Reinforcement		Glass Fiber,10% Filler by Weight		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA 6.6 GF10<		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.21	--	g/cm ³	ASTM D792
Water Absorption				ASTM D570
Saturation	7.1	--	%	
Equilibrium	2.2	--	%	
Ash Content	8.0 to 12	--	%	ASTM D2584
Deformation Under Load - 27.6 MPa (50°C)	1.1	--	%	ASTM D621
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5500	3500	MPa	ASTM D638
Tensile Strength				ASTM D638
Break	118	75.0	MPa	
--	120	80.0	MPa	
Tensile Elongation (Break)	3.0 to 3.2	8.0 to 12	%	ASTM D638
Flexural Modulus	5300	3000	MPa	ASTM D790
Flexural Strength	190	140	MPa	ASTM D790
Shear Strength	75.0	--	MPa	ASTM D732
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°C	4.0	4.0	kJ/m ²	
23°C	4.5	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	30	30	kJ/m ²	
23°C	32	70	kJ/m ²	
Notched Izod Impact	48	52	J/m	ASTM D256
Notched Izod Impact (Area)				ASTM D256
-40°C	4.00	3.00	kJ/m ²	

23°C	4.50	4.00	kJ/m ²	
Unnotched Izod Impact (Area)				ASTM D256
-30°C	35.0	28.0	kJ/m ²	
23°C	40.0	55.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	230	--	°C	ASTM D648
Melting Temperature	250 to 265	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+16	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	260 to 280		°C	
Mold Temperature	65.0 to 120		°C	

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