

# Nycast 6PA-Blue

Polyamide 6

Cast Nylons Ltd.

Message:

Nycast 6PA-Blue is a polyamide 6 (nylon 6) material. This product is available in North America and is processed by casting.

Typical application areas include:  
engineering/industrial accessories  
House  
marine applications  
Sealing applications  
Automotive Industry

General Information			
Uses	Pump parts		
	Bushing		
	Gear		
	Conveyor accessories		
	Ship application		
	Pulley		
	Seals		
	Application in Automobile Field		
	Cam		
	Shell		
	Bearing		
	Seat		
Appearance	Blue		
Forms	Preform		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D792
Water Absorption			ASTM D570
24 hr	0.55	%	ASTM D570
Saturation	5.5	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Durometer Hardness (Shore D)	81		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3280	MPa	ASTM D638
Tensile Strength	81.0	MPa	ASTM D638
Tensile Elongation (Break)	38	%	ASTM D638
Flexural Modulus	3170	MPa	ASTM D790

Flexural Strength	114	MPa	ASTM D790
Compressive Modulus	2500	MPa	ASTM D695
Compressive Strength	102	MPa	ASTM D695
Shear Strength	72.4	MPa	ASTM D732
Coefficient of Friction	0.22		ASTM D1894
Deformation Under Load	1.50	%	ASTM D621
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	213	°C	ASTM D648
1.8 MPa, not annealed	149	°C	ASTM D648
Continuous Use Temperature	110	°C	ASTM D794
Melting Temperature	227 - 238	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.70		ASTM D150
1 kHz	3.70		ASTM D150
100 kHz	3.70		ASTM D150

#### Additional Information

The test methods for Max. Continuous Use Temp., ASTM D794, and Coefficient of Friction, Dynamic, ASTM D1894 were unspecified by the manufacturer. The properties for Nycast 6PA-Blue are based on the average of a range of values provided by the manufacturer.

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#### Recommended distributors for this material

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