Nycast 6MP

Polyamide 6

Cast Nylons Ltd.

Message:

Designed to address the problems associated with impact loads, NYCAST 6MP formulations provide performance advantages in applications that require improved impact properties over standard grades. NYCAST 6MP cushion pads protect the hammer from metal-to-metal damage in pile drivers and provide many performance advantages in certain gear, die block, valve seat and other applications.

This formulation also provides superior performance in extreme cold temperature applications, where standard grades are prone to impact failure.

General Information					
Features	Low Temperature Resistant				
	Ultra High Impact Resistance				
Uses	Automotive Applications				
	Bearings				
	Bushings				
	Construction Applications				
	Marine Applications				
	Mining Applications				
	Seals				
	Shock Absorbing Pads				
	Textile Applications				
	Wear Strip				
Appearance	Blue				
Forms	Preformed Parts				
Processing Method	Casting				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.14 to 1.16	g/cm³	ASTM D792		
Water Absorption			ASTM D570		
24 hr	0.50 to 0.60	%			
Saturation	5.0 to 6.0	%			
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (R-Scale)	110 to 115		ASTM D785		
Durometer Hardness (Shore D)	76 to 78		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	2590 to 3030	MPa	ASTM D638		
Tensile Strength	66.9 to 74.5	MPa	ASTM D638		
Tensile Elongation (Break)	25 to 35	%	ASTM D638		
Flexural Modulus	2280 to 2410	MPa	ASTM D790		
Flexural Strength	82.7 to 89.6	MPa	ASTM D790		

Compressive Modulus	1930 to 2380	MPa	ASTM D695
Compressive Strength	86.2 to 104	MPa	ASTM D695
Shear Strength	68.9 to 75.8	MPa	ASTM D732
Coefficient of Friction (vs. Itself - Dynamic)	0.22		ASTM D1894
Deformation Under Load	1.00 to 2.00	%	ASTM D621
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	44 to 49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	204 to 221	°C	
1.8 MPa, Unannealed	93.3 to 204	°C	
Continuous Use Temperature	110	°C	ASTM D794
Melting Temperature	227 to 238	°C	
CLTE - Flow	7.2E-5 to 8.1E-5	cm/cm/°C	ASTM D696
Service Temperature - Intermittent	166	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20 to 24	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.70		
1 kHz	3.70		
100 kHz	3.70		

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