

Nycast Elastalon

Polyamide 6 Elastomer

Cast Nylons Ltd.

Message:

Nycast Elastalon is a Polyamide 6 Elastomer (Nylon 6 Elast) material. It is available in North America for casting. Primary attribute of Nycast Elastalon: Impact Resistant.

General Information			
Features	Good Impact Resistance		
Forms	Pellets		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Water Absorption (24 hr)	2.8	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	74		ASTM D785
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	752	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	26.9	MPa	
Break	44.7	MPa	
Tensile Elongation (Yield)	300	%	ASTM D638
Flexural Modulus	724	MPa	ASTM D790
Compressive Modulus	1220	MPa	ASTM D695
Compressive Strength	31.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	190	°C	
1.8 MPa, Unannealed	63.9	°C	
Continuous Use Temperature	98.9	°C	ASTM D794
Melting Temperature	221	°C	
Electrical	Nominal Value		Test Method
Dielectric Constant			ASTM D150
1 kHz	60.0		
1 MHz	5.00		
Dissipation Factor			ASTM D150
1 kHz	0.75		

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