

Pearlthane® 16N60D

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Pearlthane® 16N60D is a polyether-based TPU, supplied in form of opaque pellets, combining high hardness with excellent mechanical properties and good hydrolysis and microbial resistance. Pearlthane® 16N60D is especially designed for injection moulding processes.

Pearlthane® 16N60D is especially designed for the production of moulded technical parts where excellent mechanical properties at low temperature, hydrolysis resistance and higher hardness are required.

General Information			
Features	Antibacterial Hydrolysis resistance High hardness		
Appearance	Opacity		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.16	g/cm ³	ASTM D792
20°C	1.16	g/cm ³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240, ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 527
100% strain	19.0	MPa	ASTM D412, ISO 527
300% strain	34.0	MPa	ASTM D412, ISO 527
Tensile Strength (Yield)	40.0	MPa	ASTM D412, ISO 527
Tensile Elongation (Break)	400	%	ASTM D412, ISO 527
Tear Strength			
-- ¹	190	kN/m	ASTM D624
--	190	kN/m	ISO 34-1
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ²	195 - 205	°C	Internal method
Injection	Nominal Value	Unit	Test Method
Drying Temperature	100 - 110	°C	
Drying Time	2.0	hr	
Rear Temperature	215	°C	
Middle Temperature	210	°C	
Front Temperature	205	°C	
Nozzle Temperature	210	°C	

Mold Temperature	35.0	°C
Injection instructions		
Closing Force: 30 tonsScrew Diameter: 30 mmL/D Ratio: 23Maximum Hydraulic Pressure: 210 barMold: Plaque 120x120x2 mm		
NOTE		
1.	C mould	
2.	Temperature at which MFI = 10 g/10 min @ 21.6 kg	

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