

Elastane™ 4760-72D

Thermoplastic Polyurethane Elastomer (Polyether)

Technical Polymers, LLC

Message:

Elastane™ 4760-72D is a Thermoplastic Polyurethane Elastomer (Polyether) (TPU-Polyether) material. It is available in North America for extrusion or injection molding.

General Information			
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (23°C)	938	MPa	ASTM D790
Abrasion Loss (23°C)	44.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain, 23°C	29.6	MPa	
100% Strain, 23°C	32.4	MPa	
300% Strain, 23°C	54.5	MPa	
Tensile Strength (Yield, 23°C)	68.9	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	> 300	%	ASTM D412
Tear Strength (23°C)	230	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	152	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 93.3	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	199 to 232	°C	
Mold Temperature	15.6 to 60.0	°C	

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Recommended distributors for this material

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