

Elastane™ 4720-77A

Thermoplastic Polyurethane Elastomer (Polyester)

Technical Polymers, LLC

Message:

Elastane™ 4720-77A is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) 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	1.18	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 23°C)	77		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain, 23°C	3.31	MPa	
100% Strain, 23°C	4.41	MPa	
300% Strain, 23°C	12.8	MPa	
Tensile Strength (Yield, 23°C)	49.0	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	600	%	ASTM D412
Tear Strength (23°C)	87.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 70 hr	21	%	
70°C, 22 hr	49	%	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	67.8	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	87.8 to 104	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	204 to 227	°C	
Mold Temperature	26.7 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	87.8 to 104	°C	
Drying Time	3.0 to 4.0	hr	
Melt Temperature	204 to 227	°C	

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