

# Elastane™ 4721R50

Thermoplastic Polyurethane Elastomer (Polyester)

Technical Polymers, LLC

Message:

Elastane™ 4721R50 is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) material filled with 50% glass fiber. It is available in North America for injection molding. Primary attribute of Elastane™ 4721R50: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	103	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 10	%	ASTM D638
Flexural Modulus (23°C)	6550	MPa	ASTM D790
Flexural Strength (23°C)	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	121	°C	
1.8 MPa, Unannealed	82.2	°C	
Vicat Softening Temperature	157	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	93.3 to 104	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	221 to 249	°C	
Mold Temperature	26.7 to 60.0	°C	

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Recommended distributors for this material

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