

Zythane® 6070D

Thermoplastic Polyurethane Elastomer (Polyether)

Alliance Polymers & Services

Message:

Zythane 6070D is a polyether--based TPU specifically formulated for injection molding applications. It exhibits excellent abrasion resistance and toughness and has good hydrolytic stability, oil, fuel and solvent resistance. It is supplied uncolored in pellet form.

Typical Applications:

Zythane 6070D applications include among others FDA applications, sports shoes, ski tips, other sporting goods, casters, power tools handles, good overmolded adhesion to certain EP (ex: PC, ABS, PMMA), cell phone cases, plugs, terminations, ski boot shell, animal tags, railroad pads.

General Information			
Features	Solvent resistance		
	Good wear resistance		
	Fuel resistance		
	Oil resistance		
	Good toughness		
	Hydrolysis stability		
Uses	Wheels		
	Power/other tools		
	Industrial application		
	Mobile phone		
	Sporting goods		
	Footwear		
Agency Ratings	FDA not rated		
Appearance	Colorless		
Forms	Particle		
Processing Method	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)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance	52.0	mg	ASTM D1044
Abrasion - DIN	32	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	40.0	MPa	ASTM D412
300% strain	44.0	MPa	ASTM D412
Tensile Strength (Break)	49.0	MPa	ASTM D412

Tensile Elongation (Break)	340	%	ASTM D412
Tear Strength ¹	250	kN/m	ASTM D624
Compression Set			ASTM D395B
24°C, 22 hr	39	%	ASTM D395B
70°C, 72 hr	54	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	1.11	°C	DSC
Vicat Softening Temperature	150	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm	HB		UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Rear Temperature	208	°C	
Middle Temperature	218	°C	
Front Temperature	228	°C	
Nozzle Temperature	223 - 228	°C	
Processing (Melt) Temp	218 - 228	°C	
Mold Temperature	25.0 - 60.0	°C	
Back Pressure	0.600 - 1.40	MPa	
Screw Speed	60 - 200	rpm	
Clamp Tonnage	4.1 - 6.9	kN/cm ²	
Injection instructions			
Injection Speed: >.4 in/sec			
NOTE			
1.	C mould		

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