

Zythane® 6060D

Thermoplastic Polyurethane Elastomer (Polyether)

Alliance Polymers & Services

Message:

Zythane 6060D 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.

Zythane 6060D 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		
	Good adhesion		
	Fuel resistance		
	Oil resistance		
	Good toughness		
	Hydrolysis stability		
Uses	Handle		
	overmolding		
	Wheels		
	Electrical/Electronic Applications		
	Power/other tools		
	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	1.17	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance	53.0	mg	ASTM D1044
Abrasion - DIN	28	mm³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	33.0	MPa	ASTM D412

300% strain	41.0	MPa	ASTM D412
Tensile Strength (Break)	50.5	MPa	ASTM D412
Tensile Elongation (Break)	370	%	ASTM D412
Tear Strength ¹	215	kN/m	ASTM D624
Compression Set			ASTM D395B
24°C, 22 hr	38	%	ASTM D395B
70°C, 72 hr	48	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-14.0	°C	DSC
Vicat Softening Temperature	142	°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	205	°C	
Middle Temperature	215	°C	
Front Temperature	225	°C	
Nozzle Temperature	220 - 230	°C	
Processing (Melt) Temp	220 - 230	°C	
Mold Temperature	25.0 - 60.0	°C	
Back Pressure	0.600 - 1.40	MPa	
Screw Speed	60 - 200	rpm	
Clamp Tonnage	4.0 - 7.0	kN/cm ²	
Injection instructions			
Injection Speed: >10 mm/sec			
NOTE			
1.	C mould		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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