## Zythane® 6065D

Thermoplastic Polyurethane Elastomer (Polyether)

Alliance Polymers & Services

## Message:

Zythane 6065D 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 6065D 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/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	65		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	42.0	МРа	ASTM D412		
300% strain	43.0	МРа	ASTM D412		
Tensile Strength (Break)	51.0	MPa	ASTM D412		

Tensile Elongation (Break)	350	%	ASTM D412
Tear Strength <sup>1</sup>	226	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	-12.8	°C	DSC
Vicat Softening Temperature	145	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm	НВ		UL 94
1.50 mm	НВ		UL 94
3.00 mm	НВ		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	4.1 - 6.9	kN/cm²	
Injection instructions			
Injection Speed: >.4 in/sec			
NOTE			

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## Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

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Tel: +86 21 5895 8519 Phone: +86 13424755533 Email: sales@su-jiao.com

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

