Zythane® 4060D

Thermoplastic Polyurethane Elastomer (Polyester)

Alliance Polymers & Services

Message:

Zythane 4060D is a polyester--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 Application:

Zythane 4060D applications include among others shoe soles, ski and skate boot shells, other sporting goods, caster wheels, animal tags, good overmolded adhesion to certain EP (ex: PC, ABS, PMMA), couplings, gaskets and seals, tool handles, industrial parts, mobile phone cases, armrests, golf disks, mining screens.

Industrial appl Seals Car interior pa Mobile phone Sporting good	sistance e				
Fuel resistance Oil resistance Good toughne Hydrolysis sta Uses Wheels Washer Power/other t Industrial appl Seals Car interior pa Mobile phone Sporting good	e				
Oil resistance Good toughne Hydrolysis sta Uses Wheels Washer Power/other t Industrial app Seals Car interior pa Mobile phone Sporting good					
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Industrial app Seals Car interior pa Mobile phone Sporting good					
Seals Car interior pa Mobile phone Sporting good	Power/other tools				
Car interior pa Mobile phone Sporting good	Industrial application				
Mobile phone Sporting good	Seals				
Sporting good	Car interior parts				
	Mobile phone				
- ·	Sporting goods				
Footwear	Footwear				
Appearance Colorless					
Forms Particle	Particle				
Processing Method Injection mole	ling				
Physical Nominal Value	Unit	Test Method			
Specific Gravity 1.23	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 Resistance45.0	mg	ASTM D1044			
Abrasion - DIN 50	mm³	DIN 53516			
Elastomers Nominal Value	Unit	Test Method			
Tensile Stress					
100% strain 16.0		ASTM D412			

300% strain	27.0	MPa	ASTM D412
Tensile Strength (Break)	55.0	MPa	ASTM D412
Tensile Elongation (Break)	420	%	ASTM D412
Tear Strength ¹	137	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	-7.78	°C	DSC
Vicat Softening Temperature	157	°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	165	°C	
Middle Temperature	204	°C	
Front Temperature	220	°C	
Nozzle Temperature	215 - 225	°C	
Processing (Melt) Temp	215 - 225	°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			
1.	C mould		

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