Zythane® 4070D

Thermoplastic Polyurethane Elastomer (Polyester)

Alliance Polymers & Services

Message:

Zythane 4070D 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 4070D 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.

General Information			
Features	Solvent resistance		
	Good wear resistance		
	Fuel resistance		
	Oil resistance		
	Good toughness		
	Hydrolysis stability		
Uses	Wheels		
	Washer		
	Power/other tools		
	Industrial application		
	Seals		
	Car interior parts		
	Mobile phone		
	Sporting goods		
	Footwear		
Appearance	Colorless		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.24	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Taber Abrasion Resistance	75.0	mg	ASTM D1044
Abrasion - DIN	65	mm³	DIN 53516
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% strain	30.0	MPa	ASTM D412

300% strain	40.0	MPa	ASTM D412
Tensile Strength (Break)	43.0	MPa	ASTM D412
Tensile Elongation (Break)	280	%	ASTM D412
Tear Strength [1]	226	kN/m	ASTM D624
Compression Set			ASTM D395B
24°C, 22 hr	45	%	ASTM D395B
70°C, 72 hr	80	%	ASTM D395B
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	0.00	°C	DSC
Vicat Softening Temperature	168	°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	210	°C	
Middle Temperature	220	°C	
Front Temperature	230	°C	
Nozzle Temperature	235 - 240	°C	
Processing (Melt) Temp	230 - 240	°C	
Mold Temperature	45.0 - 90.0	°C	
Back Pressure	0.600 - 1.40	MPa	
Screw Speed	60 - 200	rpm	
Clamp Tonnage	5.5 - 9.7	kN/cm^2	
Injection instructions			
Injection Speed: >.4 in/sec			
NOTE			
1.	C mould		

Recommended distributors for this material

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