

Zythane® 7075AF

Thermoplastic Polyurethane Elastomer (Polyether)

Alliance Polymers & Services

Message:

Zythane 7075AF is a polyether--based FR TPU specifically formulated for both injection molding and extrusion applications with ease of processing. It exhibits excellent flame retardance, abrasion resistance and toughness and has good hydrolytic stability, oil, fuel and solvent resistance. It is supplied uncolored in pellet form.

Typical Applications:

Zythane 7075AF applications include among others FDA applications, cable sheathing, spiral and pneumatic tubing, film, irrigation hoses, conveyor hoses, fire hoses, hydraulic hoses, cable jacketing, flat flex cables, automotive sensor cables.

General Information			
Features	Solvent resistance		
	Good wear resistance		
	Fuel resistance		
	Oil resistance		
	Good toughness		
	Hydrolysis stability		
	Flame retardancy		
Uses	Cable sheath		
	Pipe		
	Pipe fittings		
	Application in Automobile Field		
Agency Ratings	FDA not rated		
Appearance	Colorless		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance	19.0	mg	ASTM D1044
Abrasion - DIN	21	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	5.00	MPa	ASTM D412
300% strain	12.0	MPa	ASTM D412

Tensile Strength (Break)	42.0	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Tear Strength ¹	58.8	kN/m	ASTM D624
Compression Set			ASTM D395B
24°C, 22 hr	19	%	ASTM D395B
70°C, 72 hr	44	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-47.8	°C	DSC
Vicat Softening Temperature	92.2	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-2		UL 94
3.00 mm	V-2		UL 94
1.00 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	4.0	hr	
Rear Temperature	170	°C	
Middle Temperature	185	°C	
Front Temperature	200	°C	
Nozzle Temperature	200 - 205	°C	
Processing (Melt) Temp	195 - 200	°C	
Mold Temperature	25.0 - 60.0	°C	
Back Pressure	0.500 - 1.00	MPa	
Screw Speed	60 - 200	rpm	
Clamp Tonnage	4.1 - 6.9	kN/cm ²	
Injection instructions			
Injection Speed: >.4 in/sec			
Extrusion	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	4.0	hr	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	185	°C	
Cylinder Zone 3 Temp.	200	°C	
Die Temperature	202	°C	
Extrusion instructions			
Gate Temperature: 200°C (392°F)			
NOTE			
1.	C mould		

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