Zythane® 5065A

Thermoplastic Polyurethane Elastomer (Polyester)

Alliance Polymers & Services

Message:

Zythane 5065A is a polyester-based TPU specifically formulated for extrusion 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 Applications

Zythane 5065A applications include among others spiral and pneumatic tubing, round and V belting, blow molded bellows.

General Information					
Features	Solvent resistance				
	Good wear resistance				
	Fuel resistance				
	Oil resistance				
	Good toughness				
	Hydrolysis stability				
Uses	Conveyor belt repair				
	Blow molding applications				
	Pipe fittings				
Appearance	Colorless				
Forms	Particle				
Processing Method	Blow molding				
	Extrusion				
	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.15	g/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore A)	65		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Taber Abrasion Resistance	32.0	mg	ASTM D1044		
Abrasion - DIN	48	mm³	DIN 53516		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress			ASTM D412		
100% strain	3.00	МРа	ASTM D412		
300% strain	7.00	МРа	ASTM D412		
Tensile Strength (Break)	27.0	MPa	ASTM D412		
Tensile Elongation (Break)	750	%	ASTM D412		
Tear Strength ¹	37.0	kN/m	ASTM D624		

Compression Set			ASTM D395B
23°C, 22 hr	20	%	ASTM D395B
70°C, 72 hr	37	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-33.0	°C	DSC
Vicat Softening Temperature	85.0	°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	75.0	°C	
Drying Time	4.0	hr	
Rear Temperature	167	°C	
Middle Temperature	182	°C	
Front Temperature	197	°C	
Nozzle Temperature	197 - 203	°C	
Processing (Melt) Temp	192 - 197	°C	
Mold Temperature	25.0 - 60.0	°C	
Back Pressure	0.500 - 1.00	MPa	
Screw Speed	60 - 200	rpm	
Clamp Tonnage	4.0 - 7.0	kN/cm²	
Injection instructions			
Injection Speed: >.4 in/sec (10 mm/sec)			
Extrusion	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	4.0	hr	
Cylinder Zone 1 Temp.	165	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	195	°C	
Die Temperature	195	°C	
Extrusion instructions			
Gate Temperature: 195°C (383°F)			
NOTE			
1.	C mould		

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