

Zythane® 3045D

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Alliance Polymers & Services

Message:

Zythane 3045D is a polycaprolactone--based TPU specifically formulated for injection molding applications. It exhibits excellent lowcompression set, abrasion resistance and toughness and has good hydrolytic stability, oil, fuel and solvent resistance. It is supplied uncolored in pellet form.

Typical Applications:

Zythane 3045D application include hydraulic seals and other applications require good higher temp compression set.

General Information			
Features	Fuel Resistant		
	Good Abrasion Resistance		
	Good Toughness		
	Hydrolytically Stable		
	Low Compression Set		
	Oil Resistant		
	Solvent Resistant		
Uses	Seals		
Appearance	Colorless		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	95		
Shore D	45		
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance	48.0	mg	ASTM D1044
Abrasion - DIN	44	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	14.0	MPa	
300% Strain	31.0	MPa	
Tensile Strength (Break)	51.0	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Tear Strength ¹	142	kN/m	ASTM D624
Compression Set			ASTM D395B
24°C, 22 hr	12	%	
792°C, 72 hr	17	%	

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-25.0	°C	DSC
Vicat Softening Temperature	140	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
NOTE			
1.	Die C		

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