

Desmopan® 487

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; grease and oil-resistant; low compression set; good heat resistance; short cycle times; Application; Automotive engineering; Roller coating; Seals, membranes; Damping elements

General Information			
Features	Fast Molding Cycle		
	Grease Resistant		
	High Heat Resistance		
	Low Compression Set		
	Oil Resistant		
Uses	Automotive Applications		
	Membranes		
	Seals		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.20	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	86		
Shore D, 23°C	33		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	41.8	MPa	
10% Strain,23°C	1.60	MPa	
50% Strain,23°C	4.50	MPa	
100% Strain,23°C	5.80	MPa	
300% Strain,23°C	14.4	MPa	
Tensile Strain ² (Break, 23°C)	540	%	DIN 53504
Abrasion Resistance (23°C)	12.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4

-20°C	183	MPa	
20°C	36.0	MPa	
60°C	24.0	MPa	
Impact Resilience (23°C)	45	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³ (23°C)	84	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	13	%	
70°C, 24 hr	26	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	230 to 240	°C	
Mold Temperature	20.0 to 40.0	°C	
NOTE			
1.	200 mm/min		
2.	200 mm/min		
3.	500 mm/min		

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