

Desmopan® 460

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; grease and oil-resistant; low compression set; good heat resistance; high elasticity; short cycle times; Application; Automotive engineering; Technical parts; Bearing bushes

General Information			
UL YellowCard	E465093-101727500		
Features	Fast Molding Cycle		
	Grease Resistant		
	High Elasticity		
	High Heat Resistance		
	Low Compression Set		
	Oil Resistant		
Uses	Automotive Applications		
	Engineering Parts		
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	1220	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	97		
Shore D, 15 sec	59		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	42.5	MPa	
10% Strain,23°C	15.1	MPa	
50% Strain,23°C	22.5	MPa	
300% Strain,23°C	35.1	MPa	
Tensile Strain ⁴ (Break, 23°C)	390	%	DIN 53504
Flexural Modulus ⁵	170	MPa	ISO 178
Abrasion Resistance (23°C)	40.0	mm ³	ISO 4649-A

Tensile Storage Modulus			ISO 6721-1,-4
-20°C	1.76	GPa	
20°C	0.446	GPa	
60°C	0.130	GPa	
Impact Resilience	35	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁶	150	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	35	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 110	°C	
Processing (Melt) Temp	235 to 245	°C	
Mold Temperature	20.0 to 40.0	°C	
NOTE			

1. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

2. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

3. 200 mm/min

4. 200 mm/min

5. 2.0 mm/min

6. 500 mm/min

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