

Desmopan® 192

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; with high mechanical strength for articles subject to wear; Application; Shift lever balls; Roller tires; Coupling elements; Shoe heels

General Information			
Features	High Strength		
Uses	Automotive Applications		
	Footwear		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Nominal Value	Unit	Test Method
Density	1230	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	94		
Shore D, 15 sec	41		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
Break, 23°C	49.3	MPa	
10% Strain, 23°C ³	4.50	MPa	
50% Strain, 23°C ⁴	8.40	MPa	
100% Strain, 23°C ⁵	9.90	MPa	
300% Strain, 23°C ⁶	19.5	MPa	
Tensile Strain ⁷ (Break, 23°C)	550	%	DIN 53504
Abrasion Resistance (23°C)	30.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	450	MPa	
20°C	93.0	MPa	
60°C	48.0	MPa	
Impact Resilience	30	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁸	100	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	60	%	

Injection	Nominal Value	Unit
Drying Temperature	< 90.0	°C
Processing (Melt) Temp	210 to 225	°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.	200 mm/min
6.	200 mm/min
7.	200 mm/min
8.	500 mm/min

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