

Desmopan® DP 89043D

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

injection molding grade; no yellowing under the action of UV light; very good hydrolysis and microbial resistance; good low-temperature flexibility; high rebound resilience; low abrasion; colored applications in the automotive, sports and leisure sectors

General Information			
Features	Good Abrasion Resistance		
	Good UV Resistance		
	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Automotive Applications		
	Sporting Goods		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1080	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	95		
Shore D	43		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ²			DIN 53504
Break, 23°C	30.0	MPa	
100% Strain,23°C	12.0	MPa	
300% Strain,23°C	18.0	MPa	
Tensile Strain ³ (Break, 23°C)	700	%	DIN 53504
Flexural Modulus ⁴ (23°C)	80.0	MPa	ISO 178
Abrasion Resistance (23°C)	11.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	230	MPa	
20°C	143	MPa	
60°C	101	MPa	
Impact Resilience (23°C)	56	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	96	kN/m	ISO 34-1

Compression Set (70°C, 24 hr)	41	%	ISO 815
Injection	Nominal Value	Unit	
Drying Temperature	< 110	°C	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	40.0 to 60.0	°C	

NOTE

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

- 1.
2. 200 mm/min
3. 200 mm/min
4. 2.0 mm/min
5. 500 mm/min

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