

Desmopan® 790

Thermoplastic Polyurethane Elastomer

Covestro - PUR

Message:

Extrusion- and injection molding grade; high mechanical strength; Application; Toothed belts; Profiles; Injection molded engineering parts

General Information			
Features	High Strength		
Uses	Belts/Belt Repair		
	Profiles		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1210	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	92		
Shore D, 15 sec	40		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	48.0	MPa	
10% Strain, 23°C	3.40	MPa	
50% Strain, 23°C	8.50	MPa	
100% Strain, 23°C	11.7	MPa	
300% Strain, 23°C	32.2	MPa	
Tensile Strain ⁴ (Break, 23°C)	430	%	DIN 53504
Abrasion Resistance (23°C)	30.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	630	MPa	
20°C	100	MPa	
60°C	53.0	MPa	
Impact Resilience	32	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵	85	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	50	%	

Injection	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Processing (Melt) Temp	210 to 230	°C
Mold Temperature	20.0 to 40.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Melt Temperature	200 to 220	°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. 500 mm/min

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