

Desmopan® DP 9873DU

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

Extrusion- and injection molding grade; very good hydrolysis and microbial resistance; very good low-temperature impact strength; Application; Boot shells; Injection molded engineering parts

General Information			
Features	Hydrolysis Resistant		
	Low Temperature Impact Resistance		
	Microbe Resistant		
Uses	Engineering Parts		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.18	g/cm ³	ISO 1183

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	98		
Shore D, 23°C	71		

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	53.0	MPa	
10% Strain, 23°C	34.0	MPa	
50% Strain, 23°C	34.0	MPa	
100% Strain, 23°C	35.0	MPa	
300% Strain, 23°C	47.0	MPa	
Tensile Strain ² (Break, 23°C)	340	%	DIN 53504
Flexural Modulus ³ (23°C)	1040	MPa	ISO 178
Abrasion Resistance (23°C)	56.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	1.49	GPa	
20°C	1.04	GPa	
60°C	0.486	GPa	
Impact Resilience (23°C)	66	%	ISO 4662

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴ (23°C)	200	kN/m	ISO 34-1

Compression Set		ISO 815
23°C, 72 hr	60	%
70°C, 24 hr	61	%
Injection	Nominal Value	Unit
Drying Temperature	< 110	°C
Processing (Melt) Temp	225 to 235	°C
Mold Temperature	40.0 to 60.0	°C
NOTE		
1.	200 mm/min	
2.	200 mm/min	
3.	2.0 mm/min	
4.	500 mm/min	

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