

Desmopan® DP 9648DU

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

Extrusion- and injection molding grade; with special UV stabilizers; transparent up to 6 mm wall thickness; very good hydrolysis and microbial resistance;
Application; Ski boot shells; Hoses, non-reinforced

General Information	
Additive	UV Stabilizer
Features	Hydrolysis Resistant
	Microbe Resistant
Uses	Hose
	Sporting Goods
RoHS Compliance	RoHS Compliant
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	94		
Shore D	48		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	51.8	MPa	
10% Strain, 23°C	5.10	MPa	
50% Strain, 23°C	11.7	MPa	
100% Strain, 23°C	15.8	MPa	
300% Strain, 23°C	31.8	MPa	
Tensile Strain (Break, 23°C)	430	%	ISO 527-2
Flexural Modulus ² (23°C)	60.0	MPa	ISO 178
Abrasion Resistance (23°C)	20.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	860	MPa	
20°C	133	MPa	
60°C	52.0	MPa	
Impact Resilience (23°C)	33	%	ISO 4662

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³ (23°C)	110	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	38	%	
70°C, 24 hr	44	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 110	°C	
Processing (Melt) Temp	215 to 235	°C	
Mold Temperature	40.0 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	< 110	°C	
Melt Temperature	200 to 235	°C	
NOTE			
1.	200 mm/min		
2.	2.0 mm/min		
3.	500 mm/min		

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