

Desmopan® DP 9650DU

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
Appearance	Clear/Transparent
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.16	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	96		
Shore D, 23°C	53		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	54.8	MPa	
10% Strain, 23°C	8.00	MPa	
50% Strain, 23°C	15.7	MPa	
100% Strain, 23°C	20.8	MPa	
300% Strain, 23°C	38.9	MPa	
Tensile Strain ² (Break, 23°C)	390	%	DIN 53504
Flexural Modulus ³ (23°C)	105	MPa	ISO 178
Abrasion Resistance (23°C)	25.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	1.94	GPa	
20°C	0.363	GPa	
60°C	0.130	GPa	

Impact Resilience (23°C)	27	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴ (23°C)	140	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	23	%	
70°C, 24 hr	45	%	
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.	200 mm/min		
3.	2.0 mm/min		
4.	500 mm/min		

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