

Desmopan® DP 9665DU

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; Pneumatic hoses

General Information			
Additive	UV Stabilizer		
Features	Hydrolysis Resistant		
	Light Stabilized		
	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)	1.18	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	98		
Shore D, 23°C	65		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	53.4	MPa	
10% Strain, 23°C	15.8	MPa	
50% Strain, 23°C	23.6	MPa	
100% Strain, 23°C	28.4	MPa	
300% Strain, 23°C	37.8	MPa	
Tensile Strain ² (Break, 23°C)	350	%	DIN 53504
Flexural Modulus ³ (23°C)	270	MPa	ISO 178
Abrasion Resistance (23°C)	19.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	2.25	GPa	
20°C	0.816	GPa	

60°C	0.215	GPa	
Impact Resilience (23°C)	40	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴ (23°C)	210	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	39	%	
70°C, 24 hr	53	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 110	°C	
Processing (Melt) Temp	220 to 235	°C	
Mold Temperature	40.0 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	< 110	°C	
Melt Temperature	205 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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