

Desmopan® DP 9380A

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

Extrusion- and injection molding grade; very good hydrolysis and microbial resistance; good low-temperature flexibility; complies with VDE 0282-10; Application; Cable sheathings; Hoses, non-reinforced

General Information			
UL YellowCard	E465093-101727509		
Features	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Cable Jacketing		
	Hose		
Agency Ratings	VDE 0282-10		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1110	kg/m ³	ISO 1183 ¹

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	80		
Shore D, 15 sec	31		

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	39.9	MPa	
10% Strain, 23°C	1.40	MPa	
50% Strain, 23°C	3.90	MPa	
100% Strain, 23°C	5.20	MPa	
300% Strain, 23°C	9.40	MPa	
Tensile Strain ⁴ (Break, 23°C)	590	%	DIN 53504
Abrasion Resistance (23°C)	20.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	73.0	MPa	
20°C	37.0	MPa	
60°C	30.0	MPa	

Impact Resilience (23°C)	50	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	50	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	42	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	205 to 225	°C	
Mold Temperature	20.0 to 40.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Melt Temperature	195 to 215	°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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