

Desmopan® DP 9392AU

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

Extrusion- and injection molding grade; with special UV stabilizers; very good hydrolysis and microbial resistance; good low-temperature flexibility; Application; Hoses, non-reinforced; Cable sheathings; Profiles; Technical parts

General Information			
Additive	UV Stabilizer		
Features	Hydrolysis Resistant		
	Light Stabilized		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Cable Jacketing		
	Engineering Parts		
	Hose		
	Profiles		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1150	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	92		
Shore D, 15 sec	42		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	49.3	MPa	
10% Strain, 23°C	4.00	MPa	
50% Strain, 23°C	8.60	MPa	
100% Strain, 23°C	10.8	MPa	
300% Strain, 23°C	24.9	MPa	
Tensile Strain ⁴ (Break, 23°C)	470	%	DIN 53504
Abrasion Resistance (23°C)	20.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	700	MPa	

20°C	132	MPa	
60°C	71.0	MPa	
Impact Resilience (23°C)	32	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	85	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	20	%	
70°C, 24 hr	40	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	210 to 230	°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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