

Desmopan® DP 9386A

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; very large processing window; Application; Cable sheathings; Hoses, non-reinforced; Profiles

General Information			
Features	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Cable Jacketing		
	Hose		
	Profiles		
Agency Ratings	VDE 0282-10		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.11	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	86		
Shore D, 23°C	34		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	32.3	MPa	
10% Strain, 23°C	1.90	MPa	
50% Strain, 23°C	5.20	MPa	
100% Strain, 23°C	6.80	MPa	
300% Strain, 23°C	10.9	MPa	
Tensile Strain ² (Break, 23°C)	630	%	DIN 53504
Abrasion Resistance (23°C)	29.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	152	MPa	
20°C	48.0	MPa	
60°C	35.0	MPa	

Impact Resilience (23°C)	45	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³ (23°C)	60	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	28	%	
70°C, 24 hr	36	%	
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	180 to 210	°C	
NOTE			
1.	200 mm/min		
2.	200 mm/min		
3.	500 mm/min		

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