

Desmopan® 9385 A

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			
Features	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Cable Jacketing		
	Hose		
	Wire & Cable Applications		
Agency Ratings	VDE 0282-10		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	86		
Shore D, 23°C	35		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
10% Strain, 23°C	2.00	MPa	
50% Strain, 23°C	5.30	MPa	
Abrasion Resistance (23°C)	25.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	18.0	MPa	
20°C	32.0	MPa	
60°C	23.0	MPa	
Impact Resilience (23°C)	40	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			DIN 53504
100% Strain, 23°C	6.80	MPa	

300% Strain, 23°C	12.2	MPa	
Tensile Stress ³ (Break, 23°C)	39.1	MPa	DIN 53504
Tensile Elongation ⁴ (Break, 23°C)	600	%	DIN 53504
Tear Strength ⁵ (23°C)	65	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	43	%	
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.	200 mm/min		
2.	200 mm/min		
3.	200 mm/min		
4.	200 mm/min		
5.	500 mm/min		

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