

Desmopan® DP 9370A

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

Extrusion- and injection molding grade; very good hydrolysis and microbial resistance; good low-temperature flexibility; free from plasticizers; high moisture vapor transmission rate; Application; breathable films; Seals, membranes; Films; hard to soft systems; Sports shoe soles

General Information			
UL YellowCard	E465093-101727507		
Features	High Moisture Vapor Transmission		
	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Film		
	Footwear		
	Membranes		
	Seals		
	Sporting Goods		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1060	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	70		ISO 868 ²
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	25.7	MPa	
10% Strain	1.00	MPa	
100% Strain, 23°C	3.50	MPa	
300% Strain, 23°C	6.70	MPa	
Tensile Strain ⁴ (Break, 23°C)	740	%	DIN 53504
Abrasion Resistance (23°C)	69.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	125	MPa	
20°C	11.0	MPa	
60°C	9.00	MPa	

Impact Resilience (23°C)	63	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	39	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	22	%	
70°C, 24 hr	49	%	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	20.0 to 40.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	175 to 210	°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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