

Desmopan® DP 5080A

Thermoplastic Polyurethane Elastomer (Ester/Ether)

Covestro - PUR

Message:

injection molding grade; improved microbial resistance; Improved hydrolysis resistance; Application; Seals, membranes; hard to soft systems

General Information			
UL YellowCard	E465093-101727506		
Features	Hydrolysis Resistant		
	Microbe Resistant		
Uses	Membranes		
	Seals		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1140	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	29		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	23.0	MPa	
10% Strain, 23°C	1.50	MPa	
50% Strain, 23°C	3.80	MPa	
100% Strain, 23°C	5.00	MPa	
300% Strain, 23°C	8.60	MPa	
Tensile Strain ⁴ (Break, 23°C)	700	%	DIN 53504
Abrasion Resistance (23°C)	70.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	105	MPa	
20°C	31.0	MPa	
60°C	23.0	MPa	
Impact Resilience (23°C)	45	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	55	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	20	%	

70°C, 24 hr	50	%
Injection	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Processing (Melt) Temp	190 to 210	°C
Mold Temperature	20.0 to 40.0	°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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