

Desmopan® 5377A

Thermoplastic Polyurethane Elastomer (Ester/Ether)

Covestro - PUR

Message:

Extrusion- and injection molding grade; improved microbial resistance; Improved hydrolysis resistance; Application; Cable sheathings; Textile coating; Wristwatch straps; hard to soft systems

General Information			
UL YellowCard	E465093-101727501		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
	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	77		
Shore D, 15 sec	28		

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	27.0	MPa	
10% Strain, 23°C	1.30	MPa	
50% Strain, 23°C	3.60	MPa	
100% Strain, 23°C	4.90	MPa	
300% Strain, 23°C	8.90	MPa	
Tensile Strain ⁴ (Break, 23°C)	640	%	DIN 53504
Abrasion Resistance (23°C)	80.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	180	MPa	
20°C	29.0	MPa	
60°C	21.0	MPa	
Impact Resilience	45	%	ISO 4662

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵	40	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	180 to 200	°C
Mold Temperature	20.0 to 40.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Melt Temperature	170 to 190	°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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