

Desmopan® 588 E

Thermoplastic Polyurethane Elastomer (Ester/Ether)

Covestro - PUR

Message:

Extrusion- and injection molding grade; improved microbial resistance; Improved hydrolysis resistance; Application; Cable sheathings; Hoses, non-reinforced; Roof lining

General Information	
Features	Hydrolysis Resistant
	Microbe Resistant
Uses	Cable Jacketing
	Hose
RoHS Compliance	RoHS Compliant
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1150	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	88		
Shore D, 15 sec	33		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	39.1	MPa	
10% Strain, 23°C	2.00	MPa	
50% Strain, 23°C	4.80	MPa	
100% Strain, 23°C	6.30	MPa	
300% Strain, 23°C	11.6	MPa	
Tensile Strain ⁴ (Break, 23°C)	580	%	DIN 53504
Abrasion Resistance (23°C)	60.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	165	MPa	
20°C	29.0	MPa	
60°C	20.0	MPa	
Impact Resilience	36	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵	55	kN/m	ISO 34-1

Compression Set		ISO 815
23°C, 72 hr	25	%
70°C, 24 hr	50	%
Injection	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Processing (Melt) Temp	210 to 230	°C
Mold Temperature	20.0 to 40.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Melt Temperature	190 to 210	°C
NOTE		

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|----|---|
| 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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