

Desmopan® DP 2590A

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

Extrusion- and injection molding grade; does not contain any anti-hydrolysis agent; Application; Blown films

General Information			
Uses	Film		
RoHS Compliance	RoHS Compliant		
Processing Method	Blown Film		
	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1210	kg/m ³	ISO 1183 ¹

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	92		ISO 868 ²

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	48.9	MPa	
10% Strain, 23°C	4.30	MPa	
50% Strain, 23°C	9.40	MPa	
100% Strain, 23°C	11.9	MPa	
300% Strain, 23°C	30.1	MPa	
Tensile Strain ⁴ (Break, 23°C)	440	%	DIN 53504
Abrasion Resistance (23°C)	60.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	1.71	GPa	
20°C	0.130	GPa	
60°C	0.0570	GPa	
Impact Resilience	25	%	ISO 4662

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵	100	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	24	%	
70°C, 24 hr	53	%	

Injection	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Processing (Melt) Temp	210 to 230	°C
Mold Temperature	20.0	°C

Extrusion	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Melt Temperature	190 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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