

Desmopan® DP 3690AU

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

Extrusion- and injection molding grade; hydrolysis-stabilised; with special UV stabilizers; with release agent; transparent up to 6 mm wall thickness; good wear resistance; Application; Sports shoe soles; Films; Hoses, non-reinforced

General Information			
Additive	Hydrolysis Resistant		
	Mold Release		
	UV Stabilizer		
Features	Good Wear Resistance		
Uses	Film		
	Footwear		
	Hose		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Processing Method	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			ISO 868 ²
Shore A, 3 sec	91		
Shore D, 15 sec	40		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	60.2	MPa	
10% Strain, 23°C	3.50	MPa	
50% Strain, 23°C	8.00	MPa	
100% Strain, 23°C	10.0	MPa	
300% Strain, 23°C	23.9	MPa	
Tensile Strain ⁴ (Break, 23°C)	510	%	DIN 53504
Abrasion Resistance (23°C)	25.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	940	MPa	
20°C	94.0	MPa	

60°C	54.0	MPa	
Impact Resilience (23°C)	29	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	95	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	21	%	
70°C, 24 hr	48	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	215 to 235	°C	
Mold Temperature	20.0 to 40.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Melt Temperature	180 to 200	°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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