

Desmopan® DP 3660DU

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

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

General Information			
Additive	Hydrolysis Resistant		
	Mold Release		
	UV Stabilizer		
Features	Good Wear Resistance		
Uses	Footwear		
	Hose		
	Profiles		
	Sporting Goods		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1230	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	98		
Shore D, 15 sec	60		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	53.7	MPa	
10% Strain, 23°C	12.1	MPa	
50% Strain, 23°C	22.1	MPa	
100% Strain, 23°C	28.1	MPa	
300% Strain, 23°C	37.8	MPa	
Tensile Strain ⁴ (Break, 23°C)	320	%	DIN 53504
Abrasion Resistance (23°C)	23.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	2.61	GPa	

20°C	0.444	GPa	
60°C	0.129	GPa	
Impact Resilience (23°C)	31	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	170	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	24	%	
70°C, 24 hr	47	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 110	°C	
Processing (Melt) Temp	215 to 235	°C	
Mold Temperature	20.0 to 40.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	< 110	°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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