

Desmopan® DP 3059D

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; with release agent; excellent abrasion resistance; good wear resistance; very short cycle times; Application; Heel patches; Rollers; Boot shells; Injection molded engineering parts

General Information			
Additive	Mold Release		
Features	Fast Molding Cycle		
	Good Abrasion Resistance		
	Good Mold Release		
	Good Wear Resistance		
Uses	Engineering Parts		
	Rollers		
RoHS Compliance	RoHS Compliant		
Processing Method	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	97		
Shore D, 15 sec	59		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			ISO 527-3
Break, 23°C	50.0	MPa	
100% Strain,23°C	21.0	MPa	
300% Strain,23°C	42.0	MPa	
Tensile Strain ⁴ (Break, 23°C)	400	%	ISO 527-3
Flexural Modulus ⁵ (23°C)	180	MPa	ISO 178
Abrasion Resistance (23°C)	18.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	2.44	GPa	
20°C	0.586	GPa	
60°C	0.181	GPa	
Impact Resilience (23°C)	35	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁶ (23°C)	160	kN/m	ISO 34-1

Compression Set		ISO 815
23°C, 72 hr	24	%
70°C, 24 hr	46	%
Injection	Nominal Value	Unit
Drying Temperature	< 110	°C
Processing (Melt) Temp	220 to 240	°C
Mold Temperature	20.0 to 40.0	°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.	2.0 mm/min	
6.	500 mm/min	

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