

Desmopan® DP 3065D

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; high mechanical strength; excellent abrasion resistance; good wear resistance; very short cycle times; Application; Technical parts

General Information			
Features	Fast Molding Cycle		
	Good Abrasion Resistance		
	Good Wear Resistance		
	High Strength		
Uses	Engineering Parts		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1220	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	65		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	69.0	MPa	
10% Strain,23°C	21.9	MPa	
50% Strain,23°C	29.4	MPa	
100% Strain,23°C	32.5	MPa	
300% Strain,23°C	55.7	MPa	
Tensile Strain ⁴ (Break, 23°C)	350	%	DIN 53504
Flexural Modulus ⁵ (23°C)	350	MPa	ISO 178
Abrasion Resistance (23°C)	18.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	2.62	GPa	
20°C	0.948	GPa	
60°C	0.264	GPa	
Impact Resilience (23°C)	50	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁶ (23°C)	180	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	26	%	

70°C, 24 hr	38	%
Injection	Nominal Value	Unit
Drying Temperature	< 110	°C
Processing (Melt) Temp	225 to 245	°C
Mold Temperature	60.0 to 80.0	°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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