

Desmopan® DP 3072D

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	1.24	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	98		
Shore D, 23°C	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	60.0	MPa	
100% Strain, 23°C	34.0	MPa	
300% Strain, 23°C	52.0	MPa	
Tensile Strain ² (Break, 23°C)	350	%	DIN 53504
Flexural Modulus ³ (23°C)	800	MPa	ISO 178
Abrasion Resistance (23°C)	20.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	3.33	GPa	
20°C	1.28	GPa	
60°C	0.385	GPa	
Impact Resilience (23°C)	47	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴ (23°C)	260	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	29	%	
70°C, 24 hr	49	%	
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. | 200 mm/min |
| 2. | 200 mm/min |
| 3. | 2.0 mm/min |
| 4. | 500 mm/min |

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