

Desmopan® DP 3055D

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; with high mechanical strength for articles subject to wear; excellent abrasion resistance; good wear resistance; very short cycle times; Application; Injection molded engineering parts; Rollers

General Information			
Features	Fast Molding Cycle		
	Good Abrasion Resistance		
	Good Wear Resistance		
	High Strength		
Uses	Engineering Parts		
	Rollers		
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	96		
Shore D, 15 sec	56		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	53.5	MPa	
10% Strain, 23°C	14.0	MPa	
50% Strain, 23°C	19.9	MPa	
100% Strain, 23°C	22.2	MPa	
300% Strain, 23°C	39.5	MPa	
Tensile Strain ⁴ (Break, 23°C)	410	%	DIN 53504
Flexural Modulus ⁵ (23°C)	128	MPa	ISO 178
Abrasion Resistance (23°C)	26.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	1.20	GPa	
20°C	0.256	GPa	
60°C	0.117	GPa	
Impact Resilience (23°C)	35	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method

Tear Strength ⁶ (23°C)	140	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	21	%	
70°C, 24 hr	43	%	
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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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