

Desmopan® 481

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; free from plasticizers; grease and oil-resistant; low compression set; high elasticity; good heat resistance; Easy release; Application; Roller coating; Seals, membranes; Automotive engineering

General Information			
Features	Good Mold Release		
	Grease Resistant		
	High Elasticity		
	High Heat Resistance		
	Low Compression Set		
	Oil Resistant		
Uses	Automotive Applications		
	Membranes		
	Seals		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1200	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 ²
Shore A, 3 sec	81		
Shore D, 15 sec	30		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	36.8	MPa	
10% Strain, 23°C	1.30	MPa	
50% Strain, 23°C	3.80	MPa	
100% Strain, 23°C	5.20	MPa	
300% Strain, 23°C	10.2	MPa	
Tensile Strain ⁴ (Break, 23°C)	530	%	DIN 53504
Abrasion Resistance (23°C)	25.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	106	MPa	
20°C	33.0	MPa	
60°C	29.0	MPa	

Impact Resilience (23°C)	48	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	45	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	22	%	
70°C, 24 hr	35	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	225 to 235	°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. | 500 mm/min |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

