

Desmopan® DP 1080A

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; free from plasticizers; hard to soft systems; Technical parts

General Information			
Uses	Engineering Parts		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1210	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	80		ISO 868 ²
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	31.5	MPa	
10% Strain,23°C	1.30	MPa	
50% Strain,23°C	3.30	MPa	
100% Strain,23°C	4.10	MPa	
300% Strain,23°C	7.60	MPa	
Tensile Strain ⁴ (Break, 23°C)	720	%	DIN 53504
Abrasion Resistance (23°C)	35.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	171	MPa	
20°C	34.0	MPa	
60°C	24.0	MPa	
Impact Resilience	44	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵	56	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	22	%	
70°C, 24 hr	39	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	185 to 200	°C	
Mold Temperature	20.0	°C	

NOTE			
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		

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2.	
3.	200 mm/min
4.	200 mm/min
5.	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

