

Desmopan® DP 1080AU

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; free from plasticizers; UV stabilized; translucent; Cylindrical pellets; Injection molded engineering parts; hard - soft systems

General Information			
Additive	UV Stabilizer		
Features	Light Stabilized		
Uses	Engineering Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
Forms	Pellets		
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 (23°C)	44	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	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.	
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	

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