

Desmopan® DP 3070AU

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; free from plasticizers; Application; Injection molded engineering parts; hard to soft systems

General Information			
Uses	Engineering Parts		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1150	kg/m ³	ISO 1183 ¹
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	70		ISO 868 ²
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
Break, 23°C	25.0	MPa	
100% Strain, 23°C	2.50	MPa	
300% Strain, 23°C	4.60	MPa	
Tensile Strain ⁴ (Break, 23°C)	800	%	DIN 53504
Abrasion Resistance (23°C)	50.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	55.0	MPa	
20°C	17.0	MPa	
60°C	12.0	MPa	
Impact Resilience (23°C)	47	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	36	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	24	%	
70°C, 24 hr	52	%	
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	185 to 215	°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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