

Desmopan® DP 6080A

Thermoplastic Polyurethane Elastomer

Covestro - PUR

Message:

injection molding grade; free from plasticizers; easy-flowing; very good hydrolysis and microbial resistance; low abrasion; short cycle times; Cylindrical pellets; automotive interior applications; hard - soft systems; Shoe soles

General Information			
Features	Fast Molding Cycle		
	Good Abrasion Resistance		
	Good Flow		
	Hydrolysis Resistant		
	Microbe Resistant		
Uses	Automotive Interior Parts		
	Footwear		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.11	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 23°C)	81		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	20.0	MPa	
100% Strain, 23°C	5.40	MPa	
300% Strain, 23°C	10.2	MPa	
Tensile Strain ² (Break, 23°C)	580	%	DIN 53504
Abrasion Resistance (23°C)	17.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
20°C	21.0	MPa	
60°C	13.0	MPa	
Impact Resilience (23°C)	43	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³ (23°C)	36	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	18	%	
70°C, 24 hr	38	%	

Injection	Nominal Value	Unit
Processing (Melt) Temp	200 to 220	°C
Mold Temperature	20.0	°C
NOTE		
1.	200 mm/min	
2.	200 mm/min	
3.	500 mm/min	

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