

Desmopan® DP 1092A

Thermoplastic Polyurethane Elastomer

Covestro - PUR

Message:

injection molding grade; hydrolysis-stabilised; high mechanical strength; very short cycle times; Application; Shift lever balls; Roller tires; Coupling elements; Shoe heels

General Information			
Additive	Hydrolysis Resistant		
Features	Fast Molding Cycle		
	High Strength		
	Hydrolysis Resistant		
Uses	Footwear		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	93		
Shore D	42		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	48.0	MPa	
100% Strain, 23°C	8.90	MPa	
300% Strain, 23°C	16.0	MPa	
Tensile Strain ² (Break, 23°C)	600	%	DIN 53504
Abrasion Resistance (23°C)	11.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	755	MPa	
20°C	97.0	MPa	
60°C	47.0	MPa	
Impact Resilience (23°C)	40	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³ (23°C)	100	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	25	%	
70°C, 24 hr	41	%	
Injection	Nominal Value	Unit	

Drying Temperature	110	°C
Processing (Melt) Temp	210 to 230	°C
Mold Temperature	20.0 to 40.0	°C
NOTE		
1.	200 mm/min	
2.	200 mm/min	
3.	500 mm/min	

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