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/cm³	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	mm³	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

Recommended distributors for this material

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