

Desmopan® DP 1045D

Thermoplastic Polyurethane Elastomer

Covestro - PUR

Message:

injection molding grade; hydrolysis-stabilised; high mechanical strength; very short cycle times; Injection molded engineering parts; Ear-tags; Shoe heels

General Information			
Additive	Hydrolysis Resistant		
Features	Fast Molding Cycle		
	High Strength		
	Hydrolysis Resistant		
Uses	Engineering Parts		
	Footwear		
	Molded Ear Tags		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.22	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 23°C	95		
Shore D, 23°C	46		
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance (23°C)	11.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	708	MPa	
20°C	123	MPa	
60°C	51.0	MPa	
Impact Resilience (23°C)	40	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
100% Strain, 23°C	12.6	MPa	
300% Strain, 23°C	25.0	MPa	
Tensile Stress ² (Break, 23°C)	52.0	MPa	DIN 53504
Tensile Elongation ³ (Break, 23°C)	510	%	DIN 53504
Tear Strength ⁴ (23°C)	120	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	24	%	

70°C, 24 hr	37	%
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.	200 mm/min	
4.	500 mm/min	

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