

Desmopan® DP 9095AU

Thermoplastic Polyurethane Elastomer (Polyether)

Covestro - PUR

Message:

injection molding grade; with special UV stabilizers; very good hydrolysis and microbial resistance; good wear resistance; low warpage; short cycle times; Application; Ear-tags

General Information			
Additive	UV Stabilizer		
Features	Fast Molding Cycle		
	Good Wear Resistance		
	Hydrolysis Resistant		
	Low Warpage		
	Microbe Resistant		
Uses	Molded Ear Tags		
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			ISO 868 ²
Shore A, 3 sec	94		
Shore D, 15 sec	45		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Break, 23°C ³	52.7	MPa	DIN 53504
10% Strain, 23°C ⁴	6.40	MPa	DIN 53504
50% Strain, 23°C	12.0	MPa	ISO 527-2/200
100% Strain, 23°C ⁵	14.8	MPa	DIN 53504
300% Strain, 23°C ⁶	30.0	MPa	DIN 53504
Tensile Strain ⁷ (Break, 23°C)	450	%	DIN 53504
Abrasion Resistance (23°C)	18.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	790	MPa	
20°C	161	MPa	
60°C	82.0	MPa	
Impact Resilience (23°C)	33	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁸ (23°C)	130	kN/m	ISO 34-1

Compression Set		ISO 815
23°C, 72 hr	30	%
70°C, 24 hr	47	%
Injection	Nominal Value	Unit
Drying Temperature	< 100	°C
Processing (Melt) Temp	200 to 220	°C
Mold Temperature	20.0	°C
NOTE		
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
3.	200 mm/min	
4.	200 mm/min	
5.	200 mm/min	
6.	200 mm/min	
7.	200 mm/min	
8.	500 mm/min	

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