

Desmopan® DP 1085A

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

Message:

injection molding grade; hydrolysis-stabilised; high mechanical strength; very short cycle times;
Application; Injection molded engineering parts; Screenpacks

General Information			
RoHS Compliance		RoHS Compliant	
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	85		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			DIN 53504
Break, 23°C	36.0	MPa	
100% Strain,23°C	5.20	MPa	
300% Strain,23°C	9.10	MPa	
Tensile Strain ² (Break, 23°C)	720	%	DIN 53504
Abrasion Resistance (23°C)	11.0	mm ³	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	210	MPa	
20°C	35.0	MPa	
60°C	23.0	MPa	
Impact Resilience (23°C)	41	%	ISO 4662
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	74	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	19	%	
70°C, 24 hr	43	%	
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Processing (Melt) Temp	190 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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