

Desmovit® DP R 3914

Thermoplastic Polyurethane Elastomer (Ester/Ether)

geba Kunststoffcompounds GmbH

Message:

High stiffness, very good impact resistance and flexibility even at low temperatures - these are the strengths of new glass fibre reinforced polyetherdiol based thermoplastic polyurethanes (TPUs).

General Information			
Features	Good Flexibility		
	High Impact Resistance		
	High Stiffness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183/A
Molding Shrinkage			
Across Flow	0.11	%	
Flow	0.36	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	58.0	MPa	ISO 527-2/200
Tensile Strain (Break)	23	%	ISO 527-2/200
Flexural Modulus ¹			ISO 178
-30°C	3620	MPa	
23°C	1370	MPa	
Flexural Stress ²			ISO 178
-30°C	129	MPa	
23°C	43.0	MPa	
Abrasion	65	mm ³	ISO 4649
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	20	kJ/m ²	
23°C	70	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	100	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	162	°C	ISO 75-2/B

1.8 MPa, Unannealed	130	°C	ISO 75-2/A
Vicat Softening Temperature	125	°C	ISO 306/B50
CLTE			DIN 53752
Flow	9.0E-6	cm/cm/°C	
Transverse	1.4E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature - Dry Air Dryer	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	200 to 245	°C	
Mold Temperature	40.0 to 80.0	°C	
NOTE			
1.	1.0 mm/min		
2.	2.0 mm/min		

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