

Desmovit® DP R 9929

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			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Flexibility		
	High Impact Resistance		
	High Stiffness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183/A
Molding Shrinkage			
Across Flow	0.38	%	
Flow	0.13	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	71.0	MPa	ISO 527-2/200
Tensile Strain (Break)	8.0	%	ISO 527-2/200
Flexural Modulus ¹			ISO 178
-30°C	4300	MPa	
23°C	2900	MPa	
Flexural Stress ²			ISO 178
-30°C	154	MPa	
23°C	78.0	MPa	
Abrasion	83	mm ³	ISO 4649
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	14	kJ/m ²	
23°C	26	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	82	kJ/m ²	
23°C	75	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	161	°C	ISO 75-2/B
1.8 MPa, Unannealed	122	°C	ISO 75-2/A
Vicat Softening Temperature	104	°C	ISO 306/B50
CLTE			DIN 53752
Flow	9.6E-6	cm/cm/°C	
Transverse	1.2E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature - Dry Air Dryer	120 to 130	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	200 to 230	°C	
Mold Temperature	40.0 to 80.0	°C	
NOTE			
1.	1.0 mm/min		
2.	2.0 mm/min		

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