

Desmovit® DP R 3918

Thermoplastic Polyurethane Elastomer (Ester/Ether)

geba Kunststoffcompounds GmbH

Message:

Ester-based injection molding type with a ratio of 20% glass fiber

Characteristics:

high level of mechanical strength, good flexibility at low temperature, good noise absorption, very good colorability and printability, excellent heat & oil resistance, high abrasion resistance, easy to bond

Applications:

Shoe soles, shin guards, midsoles for special shoes, standard automotive applications such as: brackets, hot air intakes, side sills, shift knobs, roof rails, front spoiler, side shields, handles for walking sticks, controls, wear parts for agricultural machinery & harvester, industrial component construction, mechanical and tribologically highly stressed components in exterior use, technical units with low friction coefficients, cup holders, center console, skate roller core, role core chair, camping items.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Bondability		
	Excellent Printability		
	Good Abrasion Resistance		
	Good Colorability		
	High Heat Resistance		
	High Strength		
	Low Temperature Flexibility		
	Noise Damping		
Uses	Oil Resistant		
	Agricultural Applications		
	Automotive Applications		
	Construction Applications		
	Industrial Applications		
	Outdoor Applications		
	Safety Equipment		
	Safety Guards		
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	0.49	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	67		ISO 868
Mechanical	Nominal Value	Unit	Test Method

Tensile Stress	64.0	MPa	ISO 527-2/200
Tensile Strain (Break)	22	%	ISO 527-2/200
Flexural Modulus ¹			ISO 178
-30°C	4690	MPa	
23°C	1790	MPa	
Flexural Stress ²			ISO 178
-30°C	163	MPa	
23°C	56.0	MPa	
Abrasion	64	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	60	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	91	kJ/m ²	
23°C	140	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	155	°C	ISO 75-2/B
1.8 MPa, Unannealed	127	°C	ISO 75-2/A
Vicat Softening Temperature	125	°C	ISO 306/B50
CLTE			DIN 53752
Flow	7.0E-6	cm/cm/°C	
Transverse	1.3E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature - Dry Air Dryer	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	220 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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