

Desmovit® DP R 9920

Thermoplastic Polyurethane Elastomer (Ester/Ether)

geba Kunststoffcompounds GmbH

Message:

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

Characteristics:

very high stiffness, extreme impact strength and fl exibility at low temperature, very good hydrolysis and microbial resistance, seawater proof, good UV resistance, high shock resistance & high flexibility, good noise absorption, excellent colorability and printability

Applications:

mechanically highly stressed components of technical applications (indoor and outdoor), protectors for skiing, horse riding and motor sports, fishing net sinker, helmets, winter sport products such as ski tips, ski edge protection parts, ski bindings, ski boots, goggles, housings in the offshore area

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Excellent Printability		
	Good Colorability		
	Good Flexibility		
	Good UV Resistance		
	High Impact Resistance		
	High Stiffness		
	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
	Salt Water/Spray Resistant		
Uses	Shock Resistant		
	Sound Damping		
	Outdoor Applications		
	Safety Equipment		
	Safety Guards		
Processing Method	Safety Helmets		
	Sporting Goods		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm³	ISO 1183/A
Molding Shrinkage			
Across Flow	0.51	%	
Flow	0.12	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	67		ISO 868
Mechanical	Nominal Value	Unit	Test Method

Tensile Stress	59.0	MPa	ISO 527-2/200
Tensile Strain (Break)	15	%	ISO 527-2/200
Flexural Modulus ¹			ISO 178
-30°C	3500	MPa	
23°C	2000	MPa	
Flexural Stress ²			ISO 178
-30°C	131	MPa	
23°C	60.0	MPa	
Abrasion	78	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	40	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	156	°C	ISO 75-2/B
1.8 MPa, Unannealed	119	°C	ISO 75-2/A
Vicat Softening Temperature	94.0	°C	ISO 306/B50
CLTE			DIN 53752
Flow	1.0E-5	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
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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