Desmovit® DP R 9918

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 flexibility at low temperature, very good hydrolysis and microbial resistance, seawater proof, good UV resistance, high shock resistance & high fl exibility, 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 Shock Resistant Sound Damping		
Uses	Outdoor Applications Safety Equipment Safety Guards Safety Helmets Sporting Goods		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.29	g/cm³	ISO 1183/A
Molding Shrinkage			
Across Flow	0.32	%	
Flow	0.10	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	64		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Stress	59.0	MPa	ISO 527-2/200
Tensile Strain (Break)	17	%	ISO 527-2/200
Flexural Modulus [1]			ISO 178
-30°C	3000	MPa	
23°C	1800	MPa	
Flexural Stress [2]			ISO 178
-30°C	118	MPa	
23°C	54.0	MPa	
Abrasion	80	mm^3	ISO 4649
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	22	kJ/m^2	
23°C	45	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	167	°C	ISO 75-2/B
1.8 MPa, Unannealed	126	°C	ISO 75-2/A
Vicat Softening Temperature	92.0	°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		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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