Desmovit® DP R 3932

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 Oil Resistant		
Uses	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	1.38	g/cm³	ISO 1183/A
Molding Shrinkage			
Across Flow	0.16	%	
Flow	0.58	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	72		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Stress	83.0	MPa	ISO 527-2/200
Tensile Strain (Break)	11	%	ISO 527-2/200
Flexural Modulus [1]			ISO 178
-30°C	6220	MPa	
23°C	3200	MPa	
Flexural Stress [2]			ISO 178
-30°C	227	MPa	
23°C	99.0	MPa	
Abrasion	61	mm^3	ISO 4649
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m^2	
23°C	24	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	60	kJ/m^2	
23°C	92	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	159	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	°C	ISO 75-2/A
Vicat Softening Temperature	146	°C	ISO 306/B50
CLTE			DIN 53752
Flow	2.1E-5	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		

Recommended distributors for this material

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