

Desmovit® DP R Eco NF15

Thermoplastic Polyurethane Elastomer (Ester/Ether)

geba Kunststoffcompounds GmbH

Message:

A further advantage is the fracture behaviour. The material forms no sharp edges when breaking, so that the risk of injury is reduced to a minimum. Desmovit ® DP R Eco NF can be perfectly used for the production of sporting goods.

Besides the above mentioned advantages, injection moulders can score with the title "usage of renewable raw materials". The ecological thought is underlined by the haptics and optics of the material. Currently, Desmovit ® DP R Eco NF is offered with a 10% and 20% natural-fibre reinforcement.

General Information			
Filler / Reinforcement	Natural Fiber,15% Filler by Weight		
Features	High Impact Resistance		
	Renewable Resource Content		
Uses	Sporting Goods		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	49.0	MPa	ISO 527-2/200
Tensile Strain (Break)	16	%	ISO 527-2/200
Flexural Modulus ¹	909	MPa	ISO 178
Flexural Stress ² (23°C)	35.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	30	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	80	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	40.0	°C	

Extrusion	Nominal Value	Unit
Melt Temperature	200 to 220	°C
NOTE		
1.	1.0 mm/min	
2.	2.0 mm/min	

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