

Elastollan® R 1001

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Glass fibre reinforced thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding impact strength, high stiffness whilst maintaining good elongation, low coefficient of expansion similar to Aluminium, low shrinkage, good paintability.

Typical applications

Automotive body and panels and structural door trim parts, under body sealants, technical mouldings e.g. plugs, ski tips.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	High Impact Resistance		
	High Stiffness		
	Low Shrinkage		
	Paintable		
Uses	Automotive Exterior Parts		
	Automotive Exterior Trim		
	Plugs		
	Sealants		
	Sporting Goods		
Appearance	Natural Color		
Processing Method	Injection Molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	50		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	350	MPa	ISO 527-2
Tensile Stress	30.0	MPa	ISO 527-2/1A/50
Tensile Strain (Break)	65	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	30	kJ/m ²	
23°C	70	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	160	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	125	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
CLTE - Flow (23 to 80°C)	2.8E-5	cm/cm/°C	DIN 53752-A
Injection	Nominal Value	Unit	
Processing (Melt) Temp	225 to 245	°C	
Mold Temperature	50.0 to 70.0	°C	

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