

Elastollan® R 2002

Thermoplastic Polyurethane Elastomer (Ester/Ether)

Elastogran GmbH

General				
Material Status	• Commercial: Active			
Availability	• Europe			
Filler / Reinforcement	• Glass Fiber Reinforcement			
Appearance	• Black			
Forms	• Pellets			
Processing Method	• Injection Molding			
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2)	
Physical		Nominal Value	Unit	Test Method
Density				
--		1.38	g/cm ³	ISO 1183
--		1380	kg/m ³	ISO 1183 ²
Water Absorption				ISO 62 ²
Saturation		1.1	%	
Equilibrium		0.30	%	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		2300	MPa	ISO 527-2
Tensile Stress (Break)		70.0	MPa	ISO 527-2
Tensile Strain				
Break		15	%	ISO 527-2
Break		16	%	ISO 527-2 ²
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength				
-20°C		12	kJ/m ²	ISO 179
23°C		35	kJ/m ²	ISO 179
-30°C		7.00	kJ/m ²	ISO 179/1eA ²
23°C		30.0	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength				ISO 179
-20°C		45	kJ/m ²	
23°C		85	kJ/m ²	
Hardness		Nominal Value	Unit	Test Method
Shore Hardness (Shore D)		70		ISO 868
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed		170	°C	ISO 75-2/B
0.45 MPa		150	°C	ISO 75-2 ²
1.8 MPa, Unannealed		130	°C	ISO 75-2/A
1.8 MPa		117	°C	ISO 75-2 ²
Vicat Softening Temperature				ISO 306 ²
50°C/h, B (50N)		92.0	°C	
CLTE - Flow				
23 to 80°C		0.000015	cm/cm/°C	ISO 11359-2
--		0.000018	cm/cm/°C	ISO 11359-2 ²

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由IDES发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Tuesday, January 12, 2010

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	> 1.0E+15	ohms	IEC 60093 ²
Volume resistivity	1.0E+10	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	6.80		
1 MHz	5.20		
Dissipation Factor			IEC 60250 ²
100 Hz	0.035		
1 MHz	0.056		
Comparative tracking index	600		IEC 60112 ²
Electric strength	30	kV/mm	IEC 60243-1 ²

Additional Information

Note: These properties were tested in accordance with the DIN test standard.
Residue on Ignition, DIN 53568: 20 %

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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