

Elastollan® R 1000

Thermoplastic Polyurethane Elastomer (Polyester)

Elastogran GmbH

General			
Material Status	• Commercial: Active		
Availability	• Europe		
Filler / Reinforcement	• Glass Fiber Reinforcement		
Appearance	• Natural Color		
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	--	1.36 g/cm ³	ISO 1183
	--	1360 kg/m ³	ISO 1183 ²
Water Absorption			ISO 62 ²
Saturation		1.0 %	
Equilibrium		0.30 %	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus		1000 MPa	ISO 527-2
Tensile Stress			
Break		50.0 MPa	ISO 527-2
Break		62.0 MPa	ISO 527-2 ²
Tensile Strain			
Break		40 %	ISO 527-2
Break		30 %	ISO 527-2 ²

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-20°C		20 kJ/m ²	ISO 179
23°C		No Break	ISO 179
			ISO 179/1eA ²
-30°C		20.0 kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength			ISO 179
-20°C		85 kJ/m ²	
23°C		No Break	
Tensile notched impact strength (23°C)		610 kJ/m ²	ISO 8256/1 ²

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)		60	ISO 868

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed		120 °C	ISO 75-2/B
0.45 MPa		145 °C	ISO 75-2 ²
1.8 MPa, Unannealed		90.0 °C	ISO 75-2/A
1.8 MPa		114 °C	ISO 75-2 ²
Vicat Softening Temperature			ISO 306 ²
50°C/h, B (50N)		88.0 °C	
CLTE - Flow			
23 to 80°C		0.000020 cm/cm/°C	ISO 11359-2
--		0.000020 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	7.10		
1 MHz	5.70		
Dissipation Factor			IEC 60250 ²
100 Hz	0.028		
1 MHz	0.065		
Comparative tracking index	600		IEC 60112 ²
Electric strength	38	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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