

Elastollan® R 3000

Thermoplastic Polyurethane Elastomer (Polyester)

Elastogran GmbH

General		
Material Status	• Commercial: Active	
Availability	• Europe	
Filler / Reinforcement	• Unspecified Filler\Reinfor.	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1)	• Isochronous Stress 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	1.0	%	
Equilibrium	0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1 ²
1 hr	2100	MPa	
1000 hr	2000	MPa	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-20°C	10	kJ/m ²	ISO 179
23°C	30	kJ/m ²	ISO 179
-30°C	7.00	kJ/m ²	ISO 179/1eA ²
23°C	22.0	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength			ISO 179
-20°C	30	kJ/m ²	
23°C	75	kJ/m ²	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	73		ISO 868

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	155	°C	ISO 75-2/B
0.45 MPa	175	°C	ISO 75-2 ²
1.8 MPa, Unannealed	120	°C	ISO 75-2/A
1.8 MPa	132	°C	ISO 75-2 ²
Vicat Softening Temperature			ISO 306 ²
50°C/h, B (50N)	131	°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！

Elastollan® R 3000
Thermoplastic Polyurethane Elastomer (Polyester)
Elastogran GmbH

Tuesday, January 12, 2010

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	> 1.0E+15	ohms	IEC 60093 ²
Volume resistivity	1.0E+11	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	5.90		
1 MHz	4.80		
Dissipation Factor			IEC 60250 ²
100 Hz	0.036		
1 MHz	0.049		
Comparative tracking index	600		IEC 60112 ²
Electric strength	36	kV/mm	IEC 60243-1 ²
Flammability	Nominal Value	Unit	Test Method
Burning Behav. at thickness h (0.900 mm, UL)	HB		ISO 1210 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.

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！