

Elastollan® 1160 A 13 P 000

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyether-Polyurethane with outstanding hydrolysis resistance, low temperature flexibility and high resistance to micro-organisms, plasticized, phthalate-free.

General Information			
Additive	Plasticizer		
Features	Flexibility at low temperatures		
	Plasticized		
	Antimicrobial		
	Hydrolysis resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	60		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	70.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% strain	1.00	MPa	DIN 53504-S2
100% strain	2.50	MPa	DIN 53504-S2
300% strain	4.50	MPa	DIN 53504-S2
Tensile Strength	27.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	850	%	DIN 53504-S2
Tear Strength ¹	40	kN/m	ISO 34-1
Compression Set (23°C, 72 hr)	25	%	ISO 815
Additional Information			
The plaques are manufactured by injection moulding from pre-dried granules (water content less 0,02%). Test paques are aged 20 hrs at 100°C.Specimens are cut from test plaques. The test conditions: 23°C ± 2°C and 50% ± 6% rel. humidity.			
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 195	°C	
Front Temperature	185 - 195	°C	

Nozzle Temperature	190 - 200	°C
Processing (Melt) Temp	185 - 195	°C
Mold Temperature	20.0 - 40.0	°C
Injection Rate	Slow	

NOTE

1.
- Method B, right-angle specimen
(cut)

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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