

Elastollan® C 64 D 53 000

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyester-Polyurethane with excellent mechanical properties and chemical resistance, outstanding wear resistance, high tear and tensile strength, good damping characteristic and high resilience performance.

General Information			
Features	High tensile strength		
	Noise reduction		
	Good tear strength		
	Good chemical resistance		
	Good wear resistance		
	Elastic		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	62		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	390	MPa	ISO 527-2
Abrasion Loss	30.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% strain	17.0	MPa	DIN 53504-S2
100% strain	24.0	MPa	DIN 53504-S2
300% strain	35.0	MPa	DIN 53504-S2
Tensile Stress			DIN 53504-S2
Yield	50.0	MPa	DIN 53504-S2
Yield ¹	43.0	MPa	DIN 53504-S2
Tensile Elongation			DIN 53504-S2
Fracture	400	%	DIN 53504-S2
Fracture ²	420	%	DIN 53504-S2
Tear Strength ³	200	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	40	%	ISO 815
70°C, 24 hr	55	%	ISO 815
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	ISO 179
23°C	No Break		ISO 179
Injection	Nominal Value	Unit	
Drying Temperature	90 - 110	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40	°C	
Rear Temperature	210 - 220	°C	
Middle Temperature	215 - 230	°C	
Front Temperature	220 - 230	°C	
Nozzle Temperature	225 - 235	°C	
Processing (Melt) Temp	220 - 230	°C	
Mold Temperature	30 - 60	°C	
Injection Rate	Slow		
Back Pressure	5.00 - 15.0	MPa	
Screw L/D Ratio	18.0:1.0 to 22.0:1.0		
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0		
NOTE			

- | | |
|----|---|
| 1. | after storage in water for 21 days
at 80°C |
| 2. | after storage in water for 21 days
at 80°C |
| 3. | Method B, right-angle specimen
(cut) |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT