

Elastollan® B 60 A 12 ESD 000

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

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

General Information			
Features	Flexibility at low temperatures		
	High tensile strength		
	Noise reduction		
	Good tear strength		
	Good wear resistance		
	Elastic		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	63		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	60.0	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	6.50	MPa	DIN 53504-S2
Tensile Stress			DIN 53504-S2
Yield	30.0	MPa	DIN 53504-S2
Yield ¹	25.0	MPa	DIN 53504-S2
Tensile Elongation			DIN 53504-S2
Fracture	800	%	DIN 53504-S2
Fracture ²	900	%	DIN 53504-S2
Tear Strength ³	50	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	20	%	ISO 815
70°C, 24 hr	30	%	ISO 815
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179

-30°C	No Break		ISO 179
23°C	No Break		ISO 179
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+7	ohms·cm	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	80 - 90	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40	°C	
Rear Temperature	180 - 190	°C	
Middle Temperature	185 - 200	°C	
Front Temperature	190 - 200	°C	
Nozzle Temperature	195 - 205	°C	
Processing (Melt) Temp	190 - 200	°C	
Mold Temperature	20 - 40	°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)

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