

Elastollan® 560 A 13 PTSG 000

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyester-Polyurethane with excellent mechanical properties and a high abrasion resistance.

General Information			
Features	Good wear resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	60		DIN 7619-1
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	90.0	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	6.00	MPa	DIN 53504-S2
Tensile Stress (Yield)	24.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	850	%	DIN 53504-S2
Tear Strength ¹	50	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	29	%	ISO 815
70°C, 24 hr	45	%	ISO 815
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	195 - 205	°C	
Middle Temperature	200 - 210	°C	
Front Temperature	200 - 210	°C	
Nozzle Temperature	205 - 215	°C	
Processing (Melt) Temp	200 - 210	°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	

- Method B, right-angle specimen (cut)

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