

Elastollan® 1170 A 11 U 000

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

Plasticizer-free, UV-stabilized Thermoplastic Polyether-Polyurethane with outstanding hydrolysis resistance, low temperature flexibility and high resistance to micro-organisms.

General Information			
Additive	UV stabilizer		
Features	Flexibility at low temperatures		
	Antimicrobial		
	Good UV resistance		
	Hydrolysis resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	71		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	50.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% strain	1.40	MPa	DIN 53504-S2
100% strain	3.40	MPa	DIN 53504-S2
300% strain	6.20	MPa	DIN 53504-S2
Tensile Stress (Yield)	30.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	800	%	DIN 53504-S2
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	185 - 195	°C	
Middle Temperature	190 - 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	

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