

Elastollan® 1190 A 10 FHF 000

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

Halogen-free flame retardant, thermoplastic Polyether-Polyurethane with outstanding hydrolysis resistance, low temperature flexibility and high resistance to micro-organisms.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Hydrolysis Resistant		
	Low Temperature Flexibility		
	Microbe Resistant		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	90		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	30.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% Strain	5.00	MPa	
100% Strain	8.00	MPa	
300% Strain	11.0	MPa	
Tensile Stress			DIN 53504-S2
Yield ¹	15.0	MPa	
Yield	25.0	MPa	
Tensile Elongation			DIN 53504-S2
Break ²	640	%	
Break	550	%	
Tear Strength ³	60	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	26	%	
70°C, 24 hr	43	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	46	kJ/m ²	
23°C	No Break		
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0	°C	
Rear Temperature	205 to 215	°C	
Middle Temperature	210 to 225	°C	
Front Temperature	215 to 225	°C	
Nozzle Temperature	220 to 230	°C	
Processing (Melt) Temp	215 to 225	°C	
Mold Temperature	20.0 to 40.0	°C	
Injection Rate	Slow		
Back Pressure	5.00 to 15.0	MPa	
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	160 to 180	°C	
Cylinder Zone 2 Temp.	180 to 200	°C	
Cylinder Zone 3 Temp.	190 to 210	°C	
Cylinder Zone 4 Temp.	200 to 220	°C	
Adapter Temperature	200 to 220	°C	
Die Temperature	190 to 210	°C	
NOTE			
1.	after storage in water at 80°C for 42 days		
2.	after storage in water at 80°C for 42 days		
3.	Method Bb, Angle (Nicked)		

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