## Elastollan® 1190A50

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Corp. Thermoplastic Polyurethanes

## Message:

Elastollan® 1190A is specifically formulated for extruded profile, tubing, sheet and film applications. It exhibits excellent abrasion resistance, toughness, transparency, very good low temperature flexibility, hydrolytic stability and fungus resistance. It has excellent damping characteristics and outstanding resistance to tear propagation. Elastollan® 1190A conforms to the FDA food contact section, book 21, section 177.2600. Elastollan® 1190A also has NSF Standard 61 "Water Contact Material" certification.. Elastollan® 1190A is supplied uncolored in diced or pelletized form.

Food Contact Acceptable		
Fungus Resistant		
Good Abrasion Resistance		
Good Tear Strength		
Good Toughness		
Hydrolytically Stable		
Low Temperature Flexibility		
NSF 61		
Injection Molding		
Nominal Value	Unit	Test Method
	g/cm³	ASTM D792
	<i>J</i> ,	
< 10	g/10 min	
10	9/10 111111	ASTM D1238
Nominal Value	Unit	ASTM D1238  Test Method
	-	
Nominal Value	-	Test Method
Nominal Value	Unit	Test Method ASTM D2240
Nominal Value  90  Nominal Value	Unit	Test Method ASTM D2240 Test Method
Nominal Value 90 Nominal Value 31.0	Unit Unit MPa	Test Method  ASTM D2240  Test Method  ASTM D412
Nominal Value 90 Nominal Value 31.0 29.0	Unit Unit MPa MPa	Test Method  ASTM D2240  Test Method  ASTM D412  ASTM D790
Nominal Value 90 Nominal Value 31.0 29.0 45.0	Unit Unit MPa MPa mg	Test Method  ASTM D2240  Test Method  ASTM D412  ASTM D790  ASTM D1044
Nominal Value 90 Nominal Value 31.0 29.0 45.0	Unit  Unit  MPa  MPa  mg  mm³	Test Method  ASTM D2240  Test Method  ASTM D412  ASTM D790  ASTM D1044  DIN 53516
Nominal Value  90  Nominal Value  31.0  29.0  45.0  25  100	Unit  Unit  MPa  MPa  mg  mm³	Test Method  ASTM D2240  Test Method  ASTM D412  ASTM D790  ASTM D1044  DIN 53516  Internal Method
Nominal Value  90  Nominal Value  31.0  29.0  45.0  25  100	Unit  Unit  MPa  MPa  mg  mm³	Test Method  ASTM D2240  Test Method  ASTM D412  ASTM D790  ASTM D1044  DIN 53516  Internal Method  Test Method
	Fungus Resistant Good Abrasion Resistance Good Tear Strength Good Toughness Hydrolytically Stable Low Temperature Flexibility  FDA 21 CFR 177.2600 NSF 61  Clear/Transparent Extrusion Injection Molding  Nominal Value  1.13	Fungus Resistant Good Abrasion Resistance Good Tear Strength Good Toughness Hydrolytically Stable Low Temperature Flexibility  FDA 21 CFR 177.2600 NSF 61  Clear/Transparent Extrusion Injection Molding  Nominal Value Unit  1.13  g/cm³

Tensile Strength	37.2	MPa	ASTM D412
Tensile Elongation (Break)	460	%	ASTM D412
Tear Strength <sup>1</sup>	128	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	25	%	
70°C, 22 hr	45	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-35.0	°C	Internal Method
Vicat Softening Temperature	120	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	2.0 to 3.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	190 to 220	°C	
Middle Temperature	190 to 220	°C	
Front Temperature	190 to 220	°C	
Nozzle Temperature	210 to 225	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	2.0 to 3.0	hr	
Cylinder Zone 1 Temp.	170 to 210	°C	
Cylinder Zone 3 Temp.	170 to 210	°C	
Cylinder Zone 5 Temp.	170 to 210	°C	
Adapter Temperature	200 to 220	°C	
Die Temperature	195 to 215	°C	
NOTE			
1,	Die C		

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## Recommended distributors for this material

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