

Elastollan® 1195 A 10 FC

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyether-Polyurethane with outstanding hydrolysis resistance, low temperature flexibility and high resistance to micro-organisms. General suitability for food contact related applications in FDA and EU regulated markets (please see food contact information).

General Information			
Features	Flexibility at low temperatures		
	Antimicrobial		
	Hydrolysis resistance		
	Compliance of Food Exposure		
Agency Ratings	FDA Food Exposure, Not Rated		
	European food contact, not rated		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 7619
Shao A, 3 seconds	96		ISO 7619
Shaw D, 3 seconds	48		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	25.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504-S2
20% strain	6.00	MPa	DIN 53504-S2
100% strain	10.0	MPa	DIN 53504-S2
300% strain	18.0	MPa	DIN 53504-S2
Tensile Stress			DIN 53504-S2
Yield	55.0	MPa	DIN 53504-S2
Yield ¹	37.0	MPa	DIN 53504-S2
Tensile Elongation (Break)	500	%	DIN 53504-S2
Tear Strength ²	100	kN/m	ISO 34-1
Compression Set (23°C, 72 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
Injection	Nominal Value	Unit
Drying Temperature	90 - 110	°C
Drying Time	2.0 - 3.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	40	°C
Rear Temperature	190 - 210	°C
Middle Temperature	200 - 220	°C
Front Temperature	210 - 230	°C
Nozzle Temperature	210 - 230	°C
Processing (Melt) Temp	210 - 230	°C
Mold Temperature	15 - 70	°C
Injection Rate	Slow	
Back Pressure	5.00 - 15.0	MPa
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 170	°C
Cylinder Zone 2 Temp.	160 - 180	°C
Cylinder Zone 3 Temp.	170 - 190	°C
Cylinder Zone 4 Temp.	190 - 210	°C
Adapter Temperature	195 - 215	°C
Die Temperature	185 - 205	°C
NOTE		
1.	After storage in water at 80°C for 42 days	
2.	Method B, right-angle specimen (cut)	

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