

Elastollan® 1195A10

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Corp. Thermoplastic Polyurethanes

Technical Data

Product Description

Elastollan® 1195A is specifically formulated for extruded profile, 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® 1195A is rated UL-94 HB in vertical flame test for wall thicknesses of 0.75 and 3.0 mm. Elastollan® 1195A also conforms to the FDA food contact regulations as described in book 21, section 177.2600 for wet food contact applications. Elastollan® 1195A also has NSF Standard 61 "Water Contact Material" certification. Elastollan® 1195A is supplied uncolored and in diced or pelletized form.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Abrasion Resistant	• Good Tear Strength	• Low Temperature Flexibility
	• Food Contact Acceptable	• Good Toughness	
	• Fungus Resistant	• Hydrolytically Stable	
Agency Ratings	• FDA 21 CFR 177.2600		
Automotive Specifications	• GM QK 000761 Type A Color: Natural	• IMDS ID 31038103 Color: Natural	
Appearance	• Clear/Transparent		
Processing Method	• Extrusion	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/10.0 kg)	35 to 65	g/10 min	ASTM D1238
Mechanical			
Tensile Modulus (Injection Molded)	51.7	MPa	ASTM D412
Flexural Modulus (Injection Molded)	52.4	MPa	ASTM D790
Taber Abrasion Resistance	55.0	mg	ASTM D1044
Abrasion - DIN	25	mm ³	DIN 53516
Elastomers			
Tensile Stress			ASTM D412
100% Strain	17.2	MPa	
300% Strain	35.9	MPa	
Tensile Strength	39.3	MPa	ASTM D412
Tensile Elongation (Break)	430	%	ASTM D412
Tear Strength ³	140	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	30	%	
70°C, 22 hr	45	%	
Hardness			
Durometer Hardness (Shore A)	95		ASTM D2240
Thermal			
Glass Transition Temperature	-28.0	°C	Internal Method
Vicat Softening Temperature	127	°C	ASTM D1525
Softening Point - DMA	89	°C	Internal Method
Flammability			
Flame Rating			UL 94
0.75 mm	HB		
3.0 mm	HB		



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Injection	Nominal Value Unit
Drying Temperature	110 to 120 °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	110 to 120 °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

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Die C

