

Elastollan® 688A50N

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan® 688AN is specifically formulated for extruded profile, sheet and film applications. It exhibits excellent abrasion resistance, toughness, high transparency, low gel, and low yellowness index. It has excellent damping characteristics and outstanding resistance to tear propagation. Elastollan® 688AN conforms to the FDA food contact regulations as described in book 21, section 177.2600 and 177.1680 for both wet and dry food contact applications respectively. Elastollan® 688AN is supplied uncolored in diced or pelletized form.

General Information			
Features	Food Contact Acceptable		
	Good Abrasion Resistance		
	Good Tear Strength		
	Good Toughness		
	Low Gel		
Agency Ratings	FDA 21 CFR 177.1680		
	FDA 21 CFR 177.2600		
Appearance	Clear/Transparent		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	15 to 30	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	23.4	MPa	ASTM D412
Flexural Modulus (Injection Molded)	39.3	MPa	ASTM D790
Taber Abrasion Resistance	25.0	mg	ASTM D1044
Abrasion - DIN	25	mm ³	DIN 53516
Softening Point - DMA	88	°C	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	8.96	MPa	
300% Strain	24.8	MPa	
Tensile Strength	40.0	MPa	ASTM D412
Tensile Elongation (Break)	520	%	ASTM D412


Tear Strength ¹	124	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	-27.0	°C	Internal Method
Vicat Softening Temperature	80.0	°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	
NOTE			
1.	Die C		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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