Elastollan® 1164D

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan® 1164D 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® 1164D conforms to the FDA food contact regulations as described in book 21, section 177.2600 for wet food contact applications. Elastollan®1164D also has NSF Standard 61 "Water Contact Material" certification. Elastollan® 1164D is supplied uncolored in diced form.

General Information	
Features	Food Contact Acceptable
	Fungus Resistant
	Good Abrasion Resistance
	Good Tear Strength
	Good Toughness
	Hydrolytically Stable
	Low Temperature Flexibility
Agency Ratings	FDA 21 CFR 177.2600
	NSF 61
Appearance	Clear/Transparent
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	296	MPa	ASTM D412
Flexural Modulus (Injection Molded)	255	MPa	ASTM D790
Taber Abrasion Resistance	55.0	mg	ASTM D1044
Abrasion - DIN	30	mm³	DIN 53516
Softening Point - DMA	132	°C	Internal Method
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% Strain	33.1	MPa	
300% Strain	44.1	MPa	
Tensile Strength	49.0	MPa	ASTM D412
Tensile Elongation (Break)	390	%	ASTM D412

Tear Strength [1]	245	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	40	%	
70°C, 22 hr	50	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	13.0	°C	Internal Method
Vicat Softening Temperature	128	°C	ASTM D1525
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	210 to 230	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	210 to 230	°C	
Nozzle Temperature	220 to 240	°C	
NOTE			
1.	Die C		

Recommended distributors for this material

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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