Elastollan® 1174D

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan [®] 1174D 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 [®] 1174D conforms to the FDA food contact regulations as described in book 21, section 177.2600 for wet food contact applications. Elastollan [®] 1174D also has NSF Standard 61 "Water Contact Material" certification. Elastollan [®] 1174D 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	1.19	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	524	MPa	ASTM D412
Flexural Modulus (Injection Molded)	503	MPa	ASTM D790
Taber Abrasion Resistance	75.0	mg	ASTM D1044
Abrasion - DIN	35	mm³	DIN 53516
Softening Point - DMA	148	°C	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	38.6	MPa	
300% Strain	49.0	MPa	
Tensile Strength	49.0	MPa	ASTM D412
Tensile Elongation (Break)	300	%	ASTM D412

280	kN/m	ASTM D624
		ASTM D395B
40	%	
60	%	
Nominal Value	Unit	Test Method
33.0	°C	Internal Method
160	°C	ASTM D1525
Nominal Value	Unit	
110 to 120	°C	
2.0 to 3.0	hr	
0.030	%	
210 to 230	°C	
210 to 230	°C	
210 to 230	°C	
220 to 240	°C	
	40 60 Nominal Value 33.0 160 Nominal Value 110 to 120 2.0 to 3.0 0.030 210 to 230 210 to 230 210 to 230	40 % 60 % 60 % Nominal Value Unit 33.0 °C 160 °C Nominal Value Unit 110 to 120 °C 2.0 to 3.0 hr 0.030 % 210 to 230 °C 210 to 230 °C 210 to 230 °C

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