Elastollan® C59D

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan[®] C59D exhibits excellent abrasion resistance and toughness, good hydrolytic stability, good heat, oil, fuel and solvent resistance. It has excellent damping characteristics and outstanding resistance to tear propagation. Elastollan[®] C59D is rated UL-94 V-2 in vertical flame test for wall thickness of 0.75 mm. Elastollan[®] C59D is supplied uncolored in diced form.

General Information					
Features	Good Abrasion Resistance				
	Good Tear Strength				
	Good Toughness				
	High Heat Resistance				
	Hydrolytically Stable				
	Solvent Resistant				
Appo2r2p.co	Colorless				
Appearance					
Processing Method	Extrusion				
	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.23	g/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	56		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (Injection Molded)	131	MPa	ASTM D412		
Flexural Modulus (Injection Molded)	138	MPa	ASTM D790		
Taber Abrasion Resistance	45.0	mg	ASTM D1044		
Abrasion - DIN	25	mm³	DIN 53516		
Softening Point - DMA	131	°C	Internal Method		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress			ASTM D412		
100% Strain	23.4	MPa			
300% Strain	46.2	MPa			
Tensile Strength	50.3	MPa	ASTM D412		
Tensile Elongation (Break)	430	%	ASTM D412		
Tear Strength ¹	210	kN/m	ASTM D624		
Compression Set			ASTM D395B		
23°C, 22 hr	30	%			
70°C, 22 hr	50	%			
Thermal	Nominal Value	Unit	Test Method		

Glass Transition Temperature	-15.0	°C	Internal Method
Vicat Softening Temperature	143	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	V-2		UL 94
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		

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