

Elastollan® C70AW

Thermoplastic Polyurethane Elastomer (Polyester)

BASF Corp. Thermoplastic Polyurethanes

Message:

Elastollan® C70AW is a polyester-based thermoplastic polyurethane (TPU) containing a plasticizer. It 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® C70AW is supplied uncolored in pellet form.

General Information	
Additive	Plasticizer
Features	Good Abrasion Resistance
	Good Tear Strength
	Good Toughness
	High Heat Resistance
	Hydrolytically Stable
	Solvent Resistant
Appearance	Colorless
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/3.8 kg)	10 to 30	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	11.0	MPa	ASTM D412
Flexural Modulus (Injection Molded)	13.1	MPa	ASTM D790
Taber Abrasion Resistance	40.0	mg	ASTM D1044
Abrasion - DIN	20	mm ³	DIN 53516
Softening Point - DMA	89	°C	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	4.14	MPa	
300% Strain	10.3	MPa	
Tensile Strength	27.6	MPa	ASTM D412
Tensile Elongation (Break)	720	%	ASTM D412
Tear Strength ¹	77.1	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	20	%	

70°C, 22 hr	45	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-48.0	°C	Internal Method
Vicat Softening Temperature	67.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.030	%	
Rear Temperature	170 to 210	°C	
Middle Temperature	170 to 210	°C	
Front Temperature	170 to 210	°C	
Nozzle Temperature	200 to 210	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	140 to 175	°C	
Cylinder Zone 3 Temp.	140 to 175	°C	
Cylinder Zone 5 Temp.	140 to 175	°C	
Adapter Temperature	160 to 175	°C	
Die Temperature	165 to 170	°C	
NOTE			
1.	Die C		

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