Vibrathane® 8070

Polyurethane (Polyester, TDI)

Chemtura

Message:

VIBRATHANE 8070 is a TDI-terminated polyester based prepolymer which yields a 70 Shore A hardness urethane when cured with 4-4'-methylene bis-(orthochloroaniline), commonly called MBCA.

Vibrathane 8070 elastomers are characterized by:

High tensile and tear strength.

Excellent heat, fuel and solvent resistance.

Outstanding abrasion resistance.

Good low temperature and dynamic properties.

General Information			
Features	Fuel Resistant		
	Good Abrasion Resistance		
	Good Tear Strength		
	High Heat Resistance		
	High Tensile Strength		
	Solvent Resistant		

Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	72		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	2.14	MPa	
300% Strain	3.86	MPa	
Tensile Strength	33.6	MPa	ASTM D412
Tensile Elongation (Break)	630	%	ASTM D412
Tear Strength			
-- [1]	54.3	kN/m	ASTM D624
Split	11	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	30	%	ASTM D395B
Bayshore Resilience	30	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 6.7		
Resin	Mix Ratio by Weight: 100		
Pot Life	8.0 to 10	min	
Post Cure Time (100°C)	16	hr	

Uncured Properties	Nominal Value	Unit
Curing Time (100°C)	1.0	hr
NOTE		
1.	Die C	

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