

Vibrathane® 8050

Polyurethane (Polyester, TDI)

Chemtura

Message:

VIBRATHANE 8050 is a TDI-terminated polyester- based prepolymer which yields a 50 Shore D hardness urethane when cured with 4,4'-methylene-bis (orthochloroaniline), commonly called MOCA.

VIBRATHANE 8050 elastomers are characterized by:

High tensile and tear properties

Low compression set

Excellent heat, fuel and solvent resistance

High load-bearing and dynamic properties

General Information			
Features	Fuel Resistant Good Tear Strength High Heat Resistance High Tensile Strength Low Compression Set Solvent Resistant		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	3.45	MPa	
10% Strain	5.69	MPa	
15% Strain	8.10	MPa	
20% Strain	10.0	MPa	
25% Strain	11.4	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	11.0	MPa	
300% Strain	23.4	MPa	
Tensile Strength	48.3	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength			
-- ¹	119	kN/m	ASTM D624
Split	25	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	25	%	ASTM D395B

Bayshore Resilience	28	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 15		
Resin	Mix Ratio by Weight: 100		
Pot Life	3.5	min	
Post Cure Time			
24°C	340	hr	
70°C	16 to 24	hr	
100°C	4.0 to 8.0	hr	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	0.25 to 0.50	hr	
NOTE			
1.	Die C		

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