

Vibrathane® B635

Polyurethane (Polyether, MDI)

Chemtura

Message:

VIBRATHANE® B635 is a polyether-based MDI-terminated prepolymer which yields 89A to 58D hardness urethanes when extended with 1,4 butanediol or hydroquinone bis (beta hydroxyethyl) ether (HQEE) curatives:
Urethanes from VIBRATHANE B635 are characterized by:
Outstanding hydrolytic stability
Excellent abrasion resistance
Excellent low-temperature properties
High load-bearing capacity

General Information			
Features	Good Abrasion Resistance		
	Hydrolytically Stable		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	89		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	7.65	MPa	ASTM D412
Tensile Strength	42.1	MPa	ASTM D412
Tensile Elongation (Break)	390	%	ASTM D412
Tear Strength			
-- 1	96.3	kN/m	ASTM D624
Split	14	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	30	%	ASTM D395B
Bayshore Resilience	40	%	ASTM D2632
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -73.0	°C	ASTM D746
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 7.9		
Resin	Mix Ratio by Weight: 100		
Post Cure Time (110°C)	> 4.0	hr	
Uncured Properties	Nominal Value	Unit	
Curing Time (110°C)	1.0	hr	
NOTE			
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