

CONATHANE® EN-4020

Polyurethane

Cytec Industries Inc.

Message:

CONATHANE EN-4020 is a filled, flame retardant urethane system formulated for casting high-voltage transformers and other electrical/electronic devices used in demanding outdoor applications. CONATHANE EN-4020 has been tested by Underwriters Laboratories and is recognized to UL 94V-0.

General Information			
Features	Filled		
	Flame Retardant		
	Good Weather Resistance		
Uses	Electrical/Electronic Applications		
Appearance	Black		
	Brown		
Processing Method	Casting		
Physical	Nominal Value	Unit	
Specific Gravity			
-- ¹	1.24	g/cm ³	
-- ²	1.64	g/cm ³	
Water Absorption (25°C, 24 hr)	0.28	%	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	65 to 70		
Elastomers	Nominal Value	Unit	
Tensile Strength	19.7	MPa	
Tensile Elongation (Break)	50	%	
Tear Strength	61.3	kN/m	
Thermal	Nominal Value	Unit	
CLTE - Flow	1.7E-4	cm/cm/°C	
Thermal Conductivity	1.8	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.3E+15	ohms	
Volume Resistivity (25°C)	7.4E+14	ohms · cm	
Dielectric Strength (1.59 mm)	20	kV/mm	
Dielectric Constant (25°C, 1 kHz)	5.13		
Dissipation Factor (25°C, 1 kHz)	0.057		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (9.53 mm)	V-0		UL 94
Thermoset	Nominal Value	Unit	

Thermoset Components		
Hardener	Mix Ratio by Weight: 100	
Resin	Mix Ratio by Weight: 16	
Thermoset Mix Viscosity (40°C)	2200	cP
Cured Properties	Nominal Value	Unit
Linear Shrinkage	0.72	%
NOTE		
1.	Resin	
2.	Hardener	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

