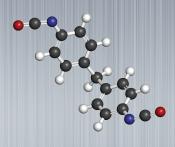
TechSpecs Durethane® C



Overview

Durethane® C uses our patented metal salt technology to achieve conductivity in our high-performance polyurethane materials. By integrating our metal salts into the backbone of the polymer we achieve uniformity of conductivity throughout the material, without sacrificing its performance or physical properties.



¹ASTM D2240, Shore A, D ²ASTM D3574A ³ASTM D395B @ 158F, 22HRS

Benefits

- Maintains consistent conductivity levels over time & wear
- · Leaves no marks or residues on contact surfaces
- Does not contaminate electronic or mechanical devices with shed particles
- Longer product or component life by preventing glazing or leaching
- · Can be made into solid or foam polyurethane materials



Durethane® C is ideal for dissipating static build-up that may cause damage in an operation, or to transfer an electrical charge. This powerful combination of electrical conductivity and durable material properties make Durethane® C ideal for a variety of applications, including:

- Medical Devices
- Cleanroom Systems
- Conveyance Systems
- Digital Printing & Imaging
- Currency Handling
- Electronics and Electronics Manufacturing



Physical Properties

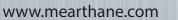
Our trade-secret formulations allow us to achieve a wide range of physical properties, including:

- Volume resistivity ranges from 5x10⁵ Ocm to 7x10¹⁵ Ocm
- Hardness range from Shore 20A to 70D1
- Tensile modulus range from 250 PSI to 7000 PSI ²
- Tear strength range from 50 to 400²
- Compression set range from 5% to 40%3













Typical Physical Properties, Materials Formulated from Durethane® C

Name	Hardness	Backbone	Tensile Strength	Elongation	Tear Strength	Compression Set	Available for Durethane® Standard Shapes
	Shore A or D	TDI or MDI	PSI	%	DIE-C (PLI)	%	
DSC220A	20A	(0 ²)	325	550	55	10	√
DSC225A	25A	()	500	575	70	9	√
DSC230A	30A	©	1000	625	80	8	√
DSC330A	30A	(0)	250	160	50	8	√
DSC235A	35A	©	1500	650	100	7	√
DSC335A	35A	0	325	170	55	7	√
DSC240A	40A	©	2000	675	125	6	√
DSC340A	40A	(0)	425	180	60	6	√
DSC245A	45A	©	2700	700	150	5	√
DSC345A	45A	(0)	475	190	65	5	√
DSC250A	50A	©	3200	775	175	5	V
DSC350A	50A	(0)	5200	200	70	5	√
DSC255A	55A	©	3750	850	200	5	√
DSC355A	55A	0	575	225	75	5	√
DSC260A	60A	©	3750	850	200	5	N/A
DSC270A	70A	()	5000	800	250	30	√
DSC370A	70A	(0)	2000	450	200	20	V
DSC275A	75A	(0)	6000	700	325	32	√
DSC280A	80A	(0°)	7000	550	400	35	√
DSC385A	85A	0	3000	700	275	40	√
DSC390A	90A	(0)	5200	430	400	32	V
DFC640A	40A	O 2	900	700	100	N/A	N/A
DFC750A	50A	(0)	800	330	130	N/A	N/A

LEDGEND









Note: The above physical properties are estimated with a volume resistivity level of 1E8 Ωcm



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