TechSpecs Durethane® S



Overview

Durethane® S is the foundation of MPC's Durethane® technologies and includes our family of versatile solid polyurethane formulations. Our polyurethane chemists have been perfecting Durethane® S formulations since 1965, developing them into the reliable materials our customers have depended on for decades.



Benefits

- · High abrasion resistance and tolerance to tight surface finishes
- Customizable physical properties to meet demanding specifications
- · Can be made into any shape component or machined to precise specifications
- FDA-compliant formulations available
- · Resistant to oils, chemicals and other challenging environments
- Can be made conductive using our patented metal salts technology

Applications

Durethane® S can be easily adapted for a wide range of applications. The superior performance of our custom-formulated solids makes them the material of choice for many mission-critical applications, including:

- Military & Defense
- Material Handling
- Medical Devices
- · Digital Imaging
- Exercise Equipment
- · Wheels & Casters



Physical Properties

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

- Hardness range from Shore 20A to 70D1
- Elongation range from 160% to 850%²
- Tensile strength range from 250 PSI to 7800 PSI²
- Tear strength range from 30 to 800³
- Compression set range from 5% to 40%4



Mearthane Products Corporation

¹ Hardness D2240, Shore A,D



Made in the USA since 1965











Physical Properties for Durethane® S Materials

Name	Hardness	Backbone	Tensile Strength	Elongation	Tear Strength	Compression Set
	Shore A or D	TDI or MDI	PSI	%	DIE-C (PLI)	%
DS220A	20A	©	325	550	55	10
DS720A	20A	(0)	380	420	30	10
DS225A	25A	©	500	575	70	9
DS230A	30A	©	1000	625	80	8
DS330A	30A	o	250	160	50	8
DS235A	35A	©	1500	650	100	7
DS335A	35A	(325	170	55	7
DS240A	40A	(b)	2000	675	125	6
DS340A	40A	o	425	180	60	6
DS245A	45A	©	2700	700	150	5
DS345A	45A	(475	190	65	5
DS250A	50A	©	3200	775	175	5
DS350A	50A	(520	200	70	5
DS255A	55A	©	3750	850	200	5
DS355A	55A	(575	225	75	5
DS260A	60A	©	3750	850	200	5
DS360A	60A	@	650	250	80	10
DS765A	65A	(0)	2000	550	200	35
DS270A	70A	©	5000	800	250	30
DS370A	70A	o	2000	450	200	20
DS770A	70A	(0)	2500	600	240	30
DS275A	75A	()	6000	700	325	32
DS375A	75A	(2200	500	225	30
DS775A	75A	(0)	3000	650	260	27
DS280A	80A	©	7000	550	400	35
DS380A	80A	0	3000	700	275	40
DS780A	80A	(0)	3500	700	300	25
DS390A	90A	o	5200	430	400	32
DS395A	95A	(5800	380	475	35
DS550D	50D	0	6000	350	500	35
DS555D	55D	(6500	325	525	37
DS560D	60D	(O) (O)	7000	300	600	37
DS570D	70D	(0)	7800	220	800	40





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