



BRANDONITE® PRODUCT SELECTION MATRIX

Product Classification	Brandonite®	Spec Gravity	Shore Hardness	Tensile Strength	Elongation at Break	Tear Strength	Compression Set	Young's Modulus	Flex Modulus	Notched Izod	Flamm. Rating	Special Features
Unit of measure		sp gr 23/23°C	A/D Scale	psi	%	lb./in.	%	psi	psi	Ft. lb./in.		
Engineered Polyurethanes	1000-40D	1.06	40D	4,500	450	150		1500 @300%				Excellent acoustics properties
RIM Polyurethanes	1000-70D	1.040	70D	4,000	140%	670 Die C			45,000	7		Abrasion resistant and highly resilient
Radiolucent Structural Composites	1000-75D	1.190	75D	9,500	180%	110	2.0 (A)	6400 @100%			V-0	Permitting penetrating and passage of X-rays, Gamma rays, etc.
Low Temperature Polyurethane	1000-80A	1.080	80A	3,000	800%	300 Die C	45%	625 @ 300%				Excellent low temperature flexibility
RFID-Transparent Structural Material	1000-85D	1.213	85D	9,200	40%				300,000	2		High rigidity & transparency to RFID signals, 170°F heat deflection
Protective Coatings	1000-90A	1.200	90A	6,500	450%	110	30 (B)	4500				Abrasion resistant and chemical resistant polyurethanes, 135°heat deflection
Flame Retardant Polyurethanes	1011-85D	1.260	85D	10,000	7%				400,000	1	V-0	Outstanding rigidity & flame Retardancy
Engineered Polyurethanes	1100-80D	1.050	82D	9,500	13%			440,000	197,000	0.3		Clear & excellent mechanical properties
High Performance Seals	1200-60A	1.080	60A	3,500	450%	200 Die C	30 (B)	1000 @300%				High elasticity & outstanding mechanical properties
Self-lubricating Engineered Elastomers	1310-70A	1.039	70A	2,980	>800%	300 Die C		730 @300%				Excellent lubricity and run-dry capacity for 15 minutes
Engineered Polyurethanes	1501-80D	1.210	80D	8,100	130%			172000		3.7	V-0	Highest hardness and rigidity
Self-lubricating Engineered Composites	1511-80D	1.165	80D	5,300	11%			130000		1.5		Outstanding lubricity and wear resistance
Engineered Polyurethanes	1600-95A	1.140	95A	5,000	400%	500 Die C	40%	3400 @300%				Outstanding tear and wear resistance
Engineered Polyurethanes	1700-60D	1.140	60D	8,200	300%	135	40% (B)	7500 @300%				Outstanding mechanical properties
High Performance Polyurethane	1700-70D	1.200	72D	8,800	260%	112	10% (A)		85,000	12		Excellent low temperature flexibility and elasticity
High Elastic Polyurethane	2000-85A	1.240	84A	7,000	590%	430 Die C	25% (B)	1,230 @300%				Excellent low temperature flexibility and elasticity
Radiographic Shielding Composite	4210-d26	2.600	95D	4,190	0.5%				1,340,000	0.4		Good performance-non toxic
Radiographic Shielding Composite	4210-d30	3.000	89D	4,780	1.0%				1,190,000	0.44		Good performance-non toxic
Radiographic Shielding Composite	4210-d32	3.200	92D	7,380	1.0%				1,092,000	0.48		Med. performance-non toxic
Radiographic Shielding Composite	4210-d35	3.500	94D	6,300	0.5%				929,000	0.54		Med. performance-non toxic
Radiographic Shielding Composite	4210-d44	4.400	94D	5,848	0.7%				875,000	0.63		Top performance-non toxic
Radiographic Shielding Composite	4210-d47	4.700	95D	11,300	1.0%				855,000	0.66		Top performance-non toxic
Radiographic Shielding Composites	4910-90D	2.900	87D	5,370	1.00%				541,000	0.52		Med. performance-Lead filled
Radiographic Shielding Composites	4910-90D HD	4.200	90D	4,500	1.00%				784,000	0.46		Top performance-Lead filled
High Temperature Polyurethanes	6000-95A	1.201	95A	7,600	550%	150	33% (B)	2600 @300%				Retaining strength up to 150°C
Engineered Alloy Materials	6101-85D	1.100	85D	10,600	9%				365,000	0.57	V-0	Outstanding mechanical properties
Sound Absorbing Materials for Sonar Domes	6510-70A	1.450	70A	900	300							Metal-filled composite
High Performance Plastics	9011-90D	1.600	90D	34,075	2.60%				2,465,000	2.3	HB	Outstanding thermal & chemical resistances, 428°F heat deflection

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