



BRANDONITE® PRODUCT SELECTION MATRIX

Product Classification	Brandonite®	Spec Gravity sp gr 23/23°C	Shore Hardness A/D Scale	Tensile Strength psi	Elongation at Break %	Tear Strength lb./in.	Compression Set %	Young's Modulus psi	Flex Modulus psi	Notched Izod Ft. lb./in.	Flamm. Rating	Special Features
Engineered Polyurethanes	1000-40D	1.06	40D	4,500	450	150		1500@300%				Excellent acoustic 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	Permits penetration and passage of EMW (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°C heat deflection
Protective Coatings	1000-90A	1.200	90A	6,500	450%	110	30 (B)	4500				Abrasion resistant and chemical resistant polyurethanes, 135°C heat deflection
Syntactic Foam	1010-15 VD	0.925										Excellent acoustic properties-Low Void Content
Syntactic Foam	1010-35 VD	0.705										Excellent acoustics properties-Med. Void Content
Syntactic Foam	1010-45 VD	0.475										Excellent acoustics properties-High Void Content
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)	172000				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)	1230@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, Pat. Pend.
Radiographic Shielding Composite	4210-d30	3.000	89D	4,780	1.0%				1,190,000	0.44		Good Performance-Non Toxic, Pat. Pend.
Radiographic Shielding Composite	4210-d32	3.200	92D	7,380	1.0%				1,092,000	0.48		Med. Performance-Non Toxic, Pat. Pend.
Radiographic Shielding Composite	4210-d35	3.500	94D	6,300	0.5%				929,000	0.54		Med. Performance-Non Toxic, Pat. Pend.
Radiographic Shielding Composite	4210-d44	4.400	94D	5,848	0.7%				875,000	0.63		Top Performance-Non Toxic, Pat. Pend.
Radiographic Shielding Composite	4210-d47	4.700	95D	11,300	1.0%				855,000	0.66		Top Performance-Non Toxic, Pat. Pend.
Radiographic Shielding Composites	4910-90D	2.900	87D	5,370	1.00%				541,000	0.52		Medium 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%				Retains 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, Pat. Pend.
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

Brandonite® is a registered trademark of Globe Composite Solutions, Ltd. ("GCS"). GCS makes no representation on the use of Brandonite® materials. The recommendations and specifications contained herein are based on results believed to be accurate and reliable. However, GCS does not warrant or imply any guarantee that the results are reproducible by others under the same or different conditions. GCS makes no express or implied warranty concerning the suitability of this product for other applications. It is the responsibility of the users to determine that this product is suitable for the intended use. 01/28/08