



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 %	Modulus psi	Izod Impact Ft. lb./in. (Notched)	Heat Deflection	Flamm. Rating	Special Features
RIM Polyurethanes	1000-70D	1.040	70D	4,000	140%	670 ©		45,000 (Flex)	7.0 (Notched)			Abrasion resistant and highly resilient
Radiolucent Structural Composites	1000-75D	1.190	75D	9,500	180%	110	2.0 (A)	6,400 (100%)			V-0	Permitting penetrating and passage of X-rays, Gamma rays, etc.
RFID-Transparent Structural Material	1000-85D	1.213	85D	9,200	40%			300,000 (Flex)	2.0 (Notched)	170°F		High rigidity & transparency to RFID signals
Protective Coatings	1000-90A	1.200	90A	6,500	450%	110	30 (B)	4,500 (Young's)		135°F		Abrasion resistant and chemical resistant polyurethanes
Syntactic Foam	1010-15 VD, 1010-35 VD & 1010-45 VD											Low density/high void contents
Flame Retardant Polyurethanes	1011-85D	1.260	85D	10,000	7%			400,000 (Flexural)	1.0 (Notched)		V-0	Outstanding rigidity & flame Retardancy
High Performance Seals	1200-60A	1.080	60A	3,500	450%	200	30 (B)	172,000 (Young's)				High elasticity & outstanding mechanical properties
Self-lubricating Engineered Elastomers	1310-70A	1.039	70A	2,980	>800%	300 ©		730 (300%)				Excellent lubricity and run-dry capacity for 15 minutes
Self-lubricating Engineered Elastomers	1710-70A											Excellent lubricity and run-dry capacity for 15 minutes
Engineered Polyurethanes	1501-80D	1.210	80D	8,100	130%			172,000 (Young's)	3.7 (Notched)		V-0	Highest hardness and rigidity
Self-lubricating Engineered Composites	1511-80D	1.165	80D	5,300	11%			130,000 (Youngs)	1.5 (Notched)			Outstanding lubricity and wear resistance
Engineered Polyurethanes	1700-60D	1.140	60D	8,200	300%	135	40% (B)	7,500 (Youngs)				
Low temperature Polyurethanes	1700-75D	1.200	75D	8,800	260%	112	10% (A)		12 (Notched)			Excellent low temperature flexibility and elasticity
Low temperature Polyurethanes	2000-75A	1.240	75A	7,000	500%	400	25% (B)					Excellent low temperature flexibility and outstanding tear & abrasion resistance
Radiographic Shielding Composites	4910-90D	3.500	90D	8,000								Lead & Tungsten filled composites
Radiographic Shielding Composites	4910-90D HD	4.500	90D	8,000								Lead & Tungsten filled composites
High Temperature Polyurethanes	6000-95A	1.201	95A	7,600	550%	150 psi	33% (B)					Retaining strength up to 150°C
Sound Absorbing Composite Materials	6510-70A											Metal-filled composite
High Performance Plastics	9011-90D	1.600	90D	34,075	2.60%			17,000 (Flex)	2.3 (Notched)	428°F	HB	Outstanding thermal & chemical resistances
Electrically conductive Polyurethanes	Under Development											Conduct or dissipate electricity
Thermally Conductive Polyurethanes	Under Development											Conduct or dissipate heat

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