

THERMOSET PROPERTIES

Grade	Strength Properties					Thermal Expansion in/in./ Fx10 ⁵	Rc Hardness	Specific Gravity	Resistance to: *				
	Tensile KSI	Compressive KSI	Flexural Modulus PSI (10 ⁶)	Impact Ft. Lbs./in. notch	Operating Temp. F				Acids		Alkalis		Organic Solvents
									Weak	Strong	Weak	Strong	
Ryertex SBE-60	9.5	37.0	0.95	4.9	248°	1.11	M-94	1.36	R	A	S	A	R
Ryertex SBE-50	7.5	37.4	0.90	2.4	248°	1.11	M-98	1.39	R	A	S	A	R
Ryertex C Sheet Tube	13.0 6.0	39.0 18.0	2.00 N/A	2.30 N/A	248° 248°	1.11 1.11	M-100 M-105	1.36 1.36	R R	A A	S S	A A	R R
Ryertex CE Sheet Tube	13.0 6.0	37.0 18.0	1.90 N/A	1.80 N/A	248° 248°	1.11 1.11	M-105 M-105	1.33 1.33	R R	A A	S S	A A	R R
Ryertex CG Sheet Tube	13.0 6.0	45.0 18.0	2.10 N/A	1.70 N/A	248° 248°	1.11 1.11	M-109 M-100	1.34 1.34	R R	A A	S S	A A	R R
Ryertex LE Sheet Tube	16.0 6.0	38.0 24.0	2.20 N/A	1.60 N/A	248° 248°	1.11 1.11	M-105 M-100	1.33 1.33	R R	A A	S S	A A	R R
Ryertex CEFW	12.0	36.0	1.80	1.40	230°	1.11	M-105	1.33	R	A	S	A	R
Ryertex CW	12.5	43.0	N/A	3.40	248°	1.11	M-100	-	R	A	S	A	R
Ryertex X-6	20.0	35.0	1.90	0.82	266°	1.13	M-105	1.40	R	A	S	A	R
G-10 Sheet Tube	50 25	60 30	7.00 N/A	12.00 N/A	302° 302°	0.055 0.055	M-115 M-105	1.82 1.82	R R	R R	R R	R R	R R
ORKOT TL	8.0	50.0	.47 x 10**6	10.0	260°	3.80	M-100	-	RT	AO	S	A	T
ORKOT HT	8.70	53.6	.47 x 10**6	10.0	400°	1.60	M-105	-	RT	AO	S	A	T
Extren 500¹ Rounds	100.0	60.0	6.00	40.00	-	0.30	B-50	2.05	R	RT	T	T	A
Extren Sheet 500 & 525	20.0	24.0	2.00	20.00	150°	0.80	B-40	1.70	R	RT	T	T	A
Extren Sheet 625	20.0	24.0	2.00	20.00	200°	0.80	B-40	1.78	R	RT	T	T	A
Structuals 500 / 525	30.0	30.0	1.60	25.00	150°	0.44	B-45	1.70	R	RT	T	T	A
Structuals 625	30.0	30.0	1.60	25.00	200°	0.44	B-45	1.70	R	RT	T	T	A
Fibrglass Sht (GPO-1)	10.0	30.0	1.00	8.00	260°	1.20	B-46	1.87	E	E	E	E	E
Electrical Fibrglass Sht (GPO-2)	10.0	30.0	1.00	8.00	300°	1.10	B-46	1.84	E	E	E	E	E
Electrical Fbrgls Shapes (GPO-3)	15.0	30.0	1.59	21.00	300°	1.10	B-64	1.82	E	E	E	E	E
Gen Purpose Electrical Fbrgls Shapes	35.0	15.0	N/A	40.00	350°	1.10	B-74	1.97	E	E	E	E	E
Fbrgls Shapes Hi-Temp	40.0	15.0	N/A	40.00	270°	1.10	B-52	1.88	E	E	E	E	E
Electrical Fbrgls Shapes High Glass	70.0	16.0	N/A	58.00	350°	1.00	B-58	1.88	E	E	E	E	E

1. Values for Extren are for longitudinal direction strength; cross direction is less

2. (B) Barcol Hardness

3. E These products are designed primarily for electrical insulation.

* CHEMICAL RESISTANCE DATA

The data in this chart is based on room temperature exposure and is of necessity of a general rule. For critical applications, testing of the plastic in the proposed environment is strongly suggested. Since conditions, methods, equipment and applications vary, WS Hampshire cannot guarantee results equivalent to those listed.

R = Resistant
A = Attacked - not suitable
S = Some effect - suggest test.
RT = Generally resistant - suggest test
T = Wide range of resistance - test
AO = Attacked by strong oxidizing acids

The values shown in these charts are typically, average properties. Actual values may differ due to variations in resin formulations and processing methods. These values are obtained from sources believed to be reliable, including the resin manufacturers, converters and other published sources. However, they should not be used for specification or design purposes.