

Redco™ FRP GRATING

PROPERTIES LW = Lengthwise, CW = Crosswise, PF = Perpendicular to Laminate Face	TYPICAL VALUES IMPERIAL	TYPICAL VALUES METRIC	ASTM or UL TEST
PHYSICAL			
TENSILE STRESS, psi (kPa)			ASTM D-638
LW	30,000	206,880	
CW	7,000	48,272	
TENSILE MODULUS, 106 psi (kPa)			ASTM D-638
LW	2.5	1,827	
CW	0.8	585	
COMPRESSIVE STRESS, psi (kPa)			ASTM D-695
LW	30,000	206,880	
CW	15,000	103,440	
COMPRESSIVE MODULUS, 106 psi (kPa)			ASTM D-695
LW	2.5	1,827	
CW	1	731	
FLEXURAL STRESS, psi (kPa)			ASTM D-790
LW	30,000	206,880	
CW	10,000	68,960	
FLEXURAL MODULUS, 106 psi (kPa)			ASTM D-790
LW	1.8	1,316	
CW	0.8	585	
MODULUS OF ELASTICITY, 106 psi (kPa)	2.8	2,047	Full Section
SHEAR MODULUS, 106 psi (kPa)	0.45	329	
Short Beam Shear, psi (kPa)	4,500	31,032	ASTM D-2344
Punch Shear, psi (kPa)	10,000	68,960	ASTM D-732
NOTCHED IZOD IMPACT, ft-lbs/in (gcm/cm)			ASTM D-256
LW	25	136075	
CW	4	21772	
BARCOL HARDNESS	45	45	ASTM D-2583
24 HOUR WATER ABSORPTION, % MAX	0.45	0.45	ASTM D-570
THERMAL			
COEFFICIENT OF THERMAL EXPANSION, LW, 10-6 in/in/°C (cm/cm/°C)	8	20.32	ASTM D-696
ELECTRICAL			
ARC RESISTANCE, LW, SECONDS	120	120	ASTM D-495
DIELECTRIC STRENGTH,			ASTM D-149
LW, kv/in (kV/mm)	35	889	
PF, volts/mil	200	200	
DIELECTRIC CONSTANT, PF, @ 60hz	5	5	ASTM D-150
TUNNEL TEST	25 max.	25 max.	ASTM E-84
FLAMMABILITY	Nonburning	Nonburning	ASTM D-635

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