



Nominal Diameter D	Unit Weight	Yield or Proof Strength R <sub>eH</sub>	Ultimate Tensile Strength R <sub>m</sub>	T/Y Ratio	% Total Elongation at Maximum Force A <sub>gt</sub>	% Elongation after Fracture A	% Elongation after Fracture A	Height of Transverse Rib	Height of Longitudinal Rib
(mm)	(Kg/m)	(MPa)	(MPa)		GL:200mm	GL: 203.2 mm	GL: 5D	mm	mm
8	0.395	465	630	1.35	10.5	14.0	22.0	0.7	0.7
8	0.396	455	625	1.37	10.0	14.5	22.5		
8	0.397	465	635	1.37	11.5	14.0	22.0		
8	0.395	455	620	1.36	12.0	14.5	22.5		
8	0.395	470	635	1.35	11.5	13.5	21.5		
8	0.398	470	635	1.35	12.0	13.5	21.5		
8	0.398	465	630	1.35	12.5	14.0	22.0		
8	0.396	465	635	1.37	11.5	14.0	22.0		
8	0.395	460	630	1.37	11.0	14.0	22.0		
8	0.397	470	640	1.36	10.5	13.5	21.5		
8	0.396	455	625	1.37	12.0	14.5	22.5		
8	0.399	465	630	1.35	10.5	14.0	22.0		
8	0.398	475	640	1.35	11.0	13.5	21.5		
8	0.397	475	640	1.35	11.5	13.5	21.5		
8	0.395	455	625	1.37	12.0	14.5	22.5		
8	0.396	460	625	1.36	11.5	14.0	22.0		
8	0.398	465	640	1.38	12.0	14.0	22.0		
8	0.399	460	635	1.38	12.0	14.0	22.0		
8	0.397	460	640	1.39	12.5	14.0	22.0		
8	0.398	455	630	1.38	10.5	14.5	22.5		
8	0.399	455	630	1.38	10.5	14.5	22.5		
8	0.400	455	635	1.40	11.0	14.5	22.5		
8	0.397	470	645	1.37	11.5	13.5	21.5		
8	0.399	460	635	1.38	12.0	14.0	22.0		
8	0.398	465	645	1.39	12.5	14.0	22.0		
8	0.397	470	650	1.38	11.0	13.5	21.5		
8	0.396	470	655	1.39	11.0	13.5	21.5		
8	0.398	475	660	1.39	10.5	13.5	21.5		
8	0.398	475	660	1.39	11.0	13.5	21.5		
8	0.399	470	665	1.41	11.5	13.5	21.5		
8	0.393	460	635	1.38	12.0	14.0	22.0		
8	0.402	465	640	1.38	12.5	14.0	22.0		
8	0.397	470	655	1.39	10.5	13.5	21.5		
8	0.400	455	635	1.40	12.5	14.5	22.5		
8	0.396	465	640	1.38	11.0	14.0	22.0		
8	0.393	465	645	1.39	11.5	14.0	22.0		
8	0.405	465	635	1.37	12.0	14.0	22.0		
8	0.398	475	665	1.40	12.5	13.5	21.5		
8	0.398	470	655	1.39	10.5	13.5	21.5		
8	0.398	465	640	1.38	10.0	14.0	22.0		
8	0.397	455	630	1.38	10.5	14.5	22.5		
8	0.402	460	635	1.38	11.0	14.0	22.0		
8	0.396	475	650	1.37	10.5	13.5	21.5		
8	0.400	475	655	1.38	11.5	13.5	21.5		
8	0.401	465	640	1.38	11.0	14.0	22.0		
8	0.396	465	640	1.38	12.0	14.0	22.0		
8	0.400	455	635	1.40	11.0	14.5	22.5		
8	0.398	455	640	1.41	10.5	14.5	22.5		
8	0.399	455	635	1.40	11.5	14.5	22.5		
8	0.397	475	655	1.38	11.5	13.5	21.5		
8	0.399	460	640	1.39	11.0	14.0	22.0		
8	0.400	465	645	1.39	11.0	14.0	22.0		
8	0.398	455	635	1.40	10.5	14.5	22.5		
8	0.399	455	630	1.38	11.0	14.5	22.5		
8	0.397	465	645	1.39	11.5	14.0	22.0		
8	0.397	455	645	1.42	11.0	14.5	22.5		
8	0.392	475	665	1.40	11.5	14.0	22.5		
8	0.395	480	675	1.41	11.0	14.0	22.0		
8	0.392	480	675	1.41	11.5	14.5	22.5		
8	0.393	460	665	1.45	11.0	14.0	22.0		
8	0.393	465	685	1.47	9.5	14.5	22.5		
8	0.395	460	665	1.45	10.5	13.5	21.0		
8	0.399	470	680	1.45	11.5	14.5	22.5		
8	0.397	480	685	1.43	11.0	14.0	22.0		
8	0.398	465	655	1.41	12.0	15.0	22.5		
8	0.399	485	695	1.43	11.5	14.5	22.0		
8	0.391	465	655	1.41	11.0	14.5	22.5		
8	0.395	470	665	1.41	11.0	14.0	21.0		
8	0.394	475	665	1.40	11.5	14.5	22.0		
8	0.395	475	665	1.40	12.0	15.0	22.5		
8	0.392	480	680	1.42	11.0	14.0	21.0		

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8	0.397	480	655	1.36	11.0	14.5	22.0	0.54	0.45
8	0.395	475	660	1.39	10.5	14.5	22.0		
8	0.396	480	660	1.38	11.0	14.0	21.0		
8	0.396	460	665	1.45	10.0	14.0	21.0		
8	0.394	465	670	1.44	10.5	14.5	22.0		
8	0.399	470	665	1.41	12.0	15.5	22.5		
8	0.397	465	670	1.44	12.0	15.5	22.5		
8	0.394	485	670	1.38	11.5	15.0	22.0		
8	0.396	455	660	1.45	12.0	15.5	22.5		
8	0.392	485	665	1.37	11.0	14.5	22.0		
8	0.397	460	675	1.47	10.0	14.0	21.0		
8	0.396	465	665	1.43	10.5	14.5	22.0		
8	0.394	465	675	1.45	10.0	14.0	21.0		
8	0.391	460	675	1.47	11.0	15.0	22.0		
8	0.394	465	680	1.46	10.5	14.5	22.0		
8	0.399	485	685	1.41	10.0	14.5	22.0		
8	0.391	475	675	1.42	9.5	15.0	22.5		
8	0.393	470	680	1.45	10.0	14.5	22.0		
8	0.391	475	695	1.46	11.0	15.0	22.5		
8	0.390	480	680	1.42	10.0	14.0	21.0		
8	0.394	465	665	1.43	10.0	14.0	21.0		
8	0.391	460	665	1.45	10.5	14.5	22.0		
8	0.391	465	665	1.43	10.0	14.0	21.0		
8	0.388	475	675	1.42	10.0	14.0	21.0		
8	0.391	480	690	1.44	10.5	14.5	22.5		
8	0.393	475	685	1.44	11.5	15.0	22.5		
8	0.391	460	675	1.47	11.0	14.5	22.0		
8	0.392	460	665	1.45	10.0	14.0	22.0		
8	0.389	475	695	1.46	11.5	15.0	22.5		
8	0.393	465	665	1.43	10.5	14.5	22.5		
8	0.395	460	655	1.42	10.0	14.0	22.0		
8	0.394	465	655	1.41	10.0	14.0	21.0		
8	0.393	465	655	1.41	10.5	14.5	22.0		
8	0.391	450	645	1.43	11.0	15.0	22.5		
8	0.396	475	680	1.43	10.0	14.0	21.0		
8	0.399	475	685	1.44	11.5	15.0	22.5		
8	0.394	480	690	1.44	10.0	14.0	21.0		
8	0.397	475	665	1.40	11.5	15.0	22.5		
8	0.393	465	675	1.45	11.0	14.5	22.0		
8	0.391	465	650	1.40	10.0	14.0	21.0		
8	0.396	460	655	1.42	10.0	14.0	21.0		
8	0.393	460	655	1.42	10.5	14.5	22.0		
8	0.396	475	665	1.40	11.0	14.0	21.0		
8	0.394	470	665	1.41	11.5	14.5	21.5		
8	0.393	460	660	1.43	12.0	15.0	22.0		
8	0.397	460	655	1.42	11.0	14.0	21.0		
8	0.395	460	660	1.43	10.5	14.5	21.5		
8	0.399	465	660	1.42	10.5	14.5	21.5		
8	0.395	455	655	1.44	10.0	14.5	21.5		
8	0.393	460	660	1.43	10.0	14.0	21.0		
8	0.396	480	665	1.39	10.5	14.5	22.0		
8	0.397	465	660	1.42	10.0	14.0	21.0		
8	0.395	465	665	1.43	10.0	14.0	21.0		
8	0.396	475	685	1.44	10.5	14.5	22.0		
8	0.391	455	655	1.44	12.5	15.5	22.5		
8	0.394	460	660	1.43	12.0	15.0	22.5		
8	0.395	475	680	1.43	10.0	14.0	21.0		
8	0.393	465	675	1.45	10.5	14.5	22.0		
8	0.391	470	675	1.44	12.0	15.0	22.5		
8	0.384	465	665	1.43	11.0	14.5	21.5		
8	0.389	465	670	1.44	11.5	15.0	22.0		
8	0.384	475	670	1.41	10.0	14.0	21.0		
8	0.384	465	670	1.44	10.0	14.0	21.0		
8	0.382	465	670	1.44	11.0	15.0	22.0		
8	0.390	460	645	1.40	12.0	15.5	22.5		
8	0.393	460	660	1.43	11.5	15.0	22.0		
8	0.391	460	665	1.45	10.0	14.0	21.0		
8	0.393	460	655	1.42	11.0	14.5	22.0		
8	0.390	460	665	1.45	10.5	14.0	21.0		
8	0.393	465	675	1.45	10.5	14.5	21.5		
8	0.397	470	670	1.43	11.5	15.0	22.0		
8	0.392	465	660	1.42	10.0	14.0	21.0		
8	0.395	465	670	1.44	12.0	15.5	22.5		
8	0.391	470	680	1.45	10.0	14.0	21.0		
8	0.391	470	680	1.45	10.0	14.0	21.0	0.62	0.52