

# Product Information

## HIFLEX EPOXY GLASS COMPOSITE

### Description

Hiflex is an epoxy glass composite designed for high fatigue resistance leaf springs. It is especially suitable as “tuned” leaf springs in vibrating machinery.

Property	Spring	Test Method ASTM
Glass Fibres @ 0° angle	85%	
@ 90° angle	15%	
Flexural Strength		D-790
@ 0° stress angle	932 MPa	16/1 Span :
@ 90° Stress angle	376 MPa	Depth Ratio
Flexural Modulus		
@ 0° stress angle	28 GPa	
@ 90° Stress angle	16 GPa	
Tensile Strength		D-638
@ 0° stress angle	800 MPa	Type II necked (4mm)
@ 90° Stress angle	141 MPa	Type I straight sides
Tensile Modulus		
@ 0° stress angle	33 GPa	
@ 90° Stress angle	14 GPa	
Compression Strength Edgewise		D-3410
@ 0° stress angle	724 MPa	
@ 90° Stress angle	315 MPa	
Compression Modulus		
@ 0° stress angle	34 GPa	
@ 90° Stress angle	14 GPa	

THICKNESS		ORIENTATION		
mm	inches	Ply	Spring	Crossply
0.76	0.03	3		√
1.27	0.05	5		√
1.78	0.07	7		√
2.29	0.09	9		√
2.79	0.11	11		√
3.30	0.13	13	√	
4.06	0.16	16	√	
4.83	0.19	19	√	
6.35	0.25	25	√	
7.87	0.31	31	√	
9.40	0.37	37	√	
10.9	0.43	43	√	
12.9	0.51	51	√	
16.0	0.63	63	√	

Note that other thickness can be made available with production lead-times .

Also check for minimum order quantities for non stock thickness.