

## LCM - Laminated Composite Materials - Applications

High Strength · Low Friction · Water Lubrication · Maintenance Free

- ✓ Industrial laminate · low friction · wear resistant
- ✓ Grease, Oil, Water or Dry lubrication available
- ✓ Very helpful in low maintenance cost
- ✓ Marine bearing and bushing
- ✓ Lloyd's RegisterT, Germanischer Lloyd, ABS, DNV and many other approvals are available
- ✓ Spherical plain bearing
- ✓ Compatible with foodstuffs
- ✓ Knuckle bearings



## Laminated composite material

Provide full-line of fiber reinforced, plastic laminates ideally suited to highly loaded bearing applications in a variety of environment

### Benefits

- A real high load self lubricating replacement for Phosphor Bronze and hardened steel.
- Low weight/high strength ratio
- Lubrication may be whatever is convenient, e.g. water, oil, grease, hydraulic fluid, acids etc...
- Suitable for low-speed rotating application
- Dry coefficients of 0.08 or lower and ultra low coeff. Of 0.009 are possible
- Dimensionally stable in fluids – Absorption in negligible
- High temperature up to 200°C
- Good insulation, damping, radiation resistance



### Standard LCM composite

Basic Grade 10Nmm <sup>-2</sup>	Max Flatwise Compression 10Nmm <sup>-2</sup>	Max Edgewise Compression 10Nmm <sup>-2</sup>	Max Operating Temp °C	Matrix Hardness Barcol O°
L1	345	97	-	45
L2	414	166	-	43
L3	255	105	145	45
L4	414	166	140	43
L6	311	159	145	43
L7	442	186	180	46
L10	442	173	250	46
L11	407	207	160	43
L14	unbroken	unbroken	-	-
L15	428	173	180	46
L16	428	166	250	46
L18	530	186	180	46
L20	140	55	250	-

### Applications

- Bushes
- Spherical Plain Bearings)
- Wear pads
- Rollers
- Wear Rings
- Wear Strips
- Pipe, Bar, Plate
- Customized products

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