



# “Lift-Off” Pipe Supports®

A “500 Projects” LLC Company



## “Lift-Off Rest” (LOR) Pipe Support Barrier

Our LOR is an isolating composite material especially designed to meet the thermal and mechanical requirements of load bearing supports.

LOR is manufactured from a special formulation of selected synthetic resins in combination with high-strength glass reinforcements.

Whether cryogenic or high temperature, the LOR will ensure it meets the need for your application.

Whether cryogenic (down to -265°F) or high temperature (up to 550°F intermittent), the LOR will ensure it meets the need for your applications.

### Material Specifications

| General Information   | Procedure | Specifications                   |
|---|-----------|----------------------------------|
| Color   |           | Light Gray / Client Specified    |
| Max Service Temp  |           | 550°F (288 C) Intermittent       |
| Low Service Temperature:  |           | -265°F (-165°C)                  |
| Continuous Use Temp   |           | 412°F (211°C)                    |
| Form  |           | Profile                          |
| Mechanical Properties   |           |                                  |
| Flexural Strength   | ASTM D790 | 31,000 psi                       |
| Tensile   | ASTM D638 | >11,000 psi                      |
| Compressive Strength @ 75° F (24° C)  | ASTM D695 | 49,000 psi                       |
| Compressive Modulus   | ASTM D695 | 1,800,000 psi                    |
| IZO Impact Strength (notched)   | ASTM D256 | 8 Ft. lb./in.                    |
| Flexural / Bending Strength   | ASTM D790 | 29,000 psi                       |
| Physical Properties   |           |                                  |
| Water Absorption  | ASTM D570 | 0.2% by weight                   |
| Specific Gravity  | ASTM D792 | 123 lbs./ft <sup>3</sup>         |
| Coefficient of Thermal Expansion  |           |                                  |
| Across Thickness  | ASTM D696 | 11.62 ln/ln°C x 10 <sup>-5</sup> |
| Across Surface  | ASTM D696 | 2.21 ln/ln°C x 10 <sup>-5</sup>  |
| Thermal Conductivity  | ASTM C177 | Ca. 0.30 W/m <sup>2</sup> K      |
| Electrical Conductance  | ASTM C177 | 2kV/mm                           |
| Flame-Resistance Properties   |           |                                  |
| UL Subject 94   | UL 94     | HB                               |
| <p><b>NOTE:</b> The above values are measured and are believed to be accurate. However final determination regarding the suitability of material should be evaluated by the end user.</p> |           |                                  |



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## The extraordinary properties of the LOR Pipe Support are:

- Very Low Thermal Conductivity
- High Mechanical Strength
- Wide operating temperatures
- Dimensionally Stable
- Flame Retardant (Halogen Free)
- UV Stabilized
- Insignificant Water Absorption
- Chemical Resistant
- Resistance to Abrasion and Wear
- Resistance to Physical and Chemical Decay
- Manufactured to suit max beam sizes up to 14” wide  
(larger beam widths can also be accommodated by increasing the height).
- Maintenance Free
- Can be Manufactured to Close Tolerances
- Sized to suit most pipe sizes up to 48”
- Cannot slide off beams
- Excellent electrical conductivity resistance
- Fast installation
- Can be used for most pipe support configurations, including guides, line stops, spring supports, etc.,
- Greatly reduces eccentric beam loading that can lead to oversizing of beams.
- Cannot burn and is not a source of fuel.