

**ACRYLITE® LED 8N LD48**

PMMA

Evonik CYRO LLC

| Processing/Physical Characteristics | Value  | Unit    | Test Standard |
|-------------------------------------|--------|---------|---------------|
| <b>ASTM Data</b>                    |        |         |               |
| Melt Flow Index, MFI                | 3.3    | g/10min | ASTM D 1238   |
| Temperature                         | 230    | °C      | -             |
| Load                                | 3.8    | kg      | -             |
| Mold Shrinkage, MD                  | 0.0055 | mm/mm   | ASTM D 955    |

| Mechanical properties       | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| <b>ASTM Data</b>            |       |      |               |
| Tensile Modulus             | 3200  | MPa  | ASTM D 638    |
| Tensile Strength            | 77.9  | MPa  | ASTM D 638    |
| Elongation at Yield         | 5     | %    | ASTM D 638    |
| Elongation at Break         | 5     | %    | ASTM D 638    |
| Flexural Modulus            | 3500  | MPa  | ASTM D 790    |
| Flexural Strength           | 112   | MPa  | ASTM D 790    |
| Rockwell Hardness           | M 95  | -    | ASTM D 785    |
| Izod Impact notched, 1/4 in | 19    | J/m  | ASTM D 256    |

| Thermal properties                   | Value | Unit  | Test Standard |
|--------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                     |       |       |               |
| Coefficient of Thermal Expansion, MD | 72    | E-6/K | ASTM D 696    |
| Vicat Temperature                    | 108   | °C    | ASTM D 1525   |

| Optical properties  | Value | Unit | Test Standard |
|---------------------|-------|------|---------------|
| <b>ASTM Data</b>    |       |      |               |
| Haze                | 2     | %    | ASTM D 1003   |
| Light Transmittance | 92    | %    | ASTM D 1003   |

| Other properties              | Value | Unit              | Test Standard |
|-------------------------------|-------|-------------------|---------------|
| Water Absorption, Equilibrium | 0.3   | %                 | ASTM D 570    |
| Density                       | 1190  | kg/m <sup>3</sup> | ASTM D 792    |
| Bulk Density                  | 660   | kg/m <sup>3</sup> | -             |

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Features**

Light Guiding

**Delivery form**

Pellets

**Regional Availability**

North America

**Special Characteristics**

U.V. stabilized or stable to weather, Transparent