

# Lasulf LASULF G/15

Polysulfone  
LATI S.p.A.

Message:

Compound based on Polysulphone (PSU).  
UL94 V-0 classified, halogens free. Glass fibres.  
Low smoke toxicity index and optical density. Very high dimensional stability. Low thermal expansion coefficient. Very high thermal resistance.

| General Information            |                                  |                   |             |
|--------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement         | Glass Fiber,15% Filler by Weight |                   |             |
| Features                       | Good Dimensional Stability       |                   |             |
|                                | Halogen Free                     |                   |             |
|                                | High Heat Resistance             |                   |             |
|                                | Low Optical Density              |                   |             |
|                                | Low Smoke Emission               |                   |             |
| Physical                       | Nominal Value                    | Unit              | Test Method |
| Density                        | 1.34                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> |                                  |                   | ISO 294-4   |
| Across Flow : 2.00 mm          | 0.65 to 0.85                     | %                 |             |
| Flow : 2.00 mm                 | 0.20 to 0.45                     | %                 |             |
| Mechanical                     | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                |                                  |                   | ISO 527-2/1 |
| 23°C                           | 5500                             | MPa               |             |
| 60°C                           | 5300                             | MPa               |             |
| 90°C                           | 5200                             | MPa               |             |
| 120°C                          | 5100                             | MPa               |             |
| 150°C                          | 4700                             | MPa               |             |
| Tensile Stress                 |                                  |                   | ISO 527-2/5 |
| Break, 23°C                    | 90.0                             | MPa               |             |
| Break, 60°C                    | 80.0                             | MPa               |             |
| Break, 90°C                    | 75.0                             | MPa               |             |
| Break, 120°C                   | 65.0                             | MPa               |             |
| Break, 150°C                   | 50.0                             | MPa               |             |
| Tensile Strain                 |                                  |                   | ISO 527-2/5 |
| Break, 23°C                    | 2.3                              | %                 |             |
| Break, 60°C                    | 2.0                              | %                 |             |
| Break, 90°C                    | 2.0                              | %                 |             |
| Break, 120°C                   | 1.9                              | %                 |             |
| Break, 150°C                   | 1.8                              | %                 |             |
| Impact                         | Nominal Value                    | Unit              | Test Method |

|                                                      |                              |                   |                |
|------------------------------------------------------|------------------------------|-------------------|----------------|
| Charpy Notched Impact Strength                       |                              |                   | ISO 179/1eA    |
| -20°C                                                | 3.5                          | kJ/m <sup>2</sup> |                |
| 23°C                                                 | 3.5                          | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength                     |                              |                   | ISO 179/1eU    |
| -20°C                                                | 40                           | kJ/m <sup>2</sup> |                |
| 23°C                                                 | 30                           | kJ/m <sup>2</sup> |                |
| Notched Izod Impact (23°C, 3.20 mm)                  | 65                           | J/m               | ASTM D256A     |
| Thermal                                              | Nominal Value                | Unit              | Test Method    |
| Heat Deflection Temperature                          |                              |                   |                |
| 0.45 MPa, Unannealed                                 | 185                          | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                                  | 175                          | °C                | ISO 75-2/A     |
| Continuous Use Temperature <sup>2</sup>              | 160                          | °C                |                |
| Vicat Softening Temperature                          | 185                          | °C                | ISO 306/B50    |
| CLTE - Flow (30 to 100°C)                            | 1.5E-5                       | cm/cm/°C          | ASTM D696      |
| Electrical                                           | Nominal Value                | Unit              | Test Method    |
| Comparative Tracking Index <sup>3</sup> (Solution A) | 125                          | V                 | IEC 60112      |
| Flammability                                         | Nominal Value                | Unit              | Test Method    |
| Flame Rating                                         |                              |                   | UL 94          |
| 1.50 mm                                              | V-1                          |                   |                |
| 3.00 mm                                              | V-0                          |                   |                |
| Glow Wire Flammability Index                         |                              |                   | IEC 60695-2-12 |
| 1.00 mm                                              | 960                          | °C                |                |
| 2.00 mm                                              | 960                          | °C                |                |
| Oxygen Index                                         | 35                           | %                 | ASTM D2863     |
| Injection                                            | Nominal Value                | Unit              |                |
| Drying Temperature                                   | 110 to 130                   | °C                |                |
| Drying Time                                          | 3.0                          | hr                |                |
| Processing (Melt) Temp                               | 300 to 330                   | °C                |                |
| Mold Temperature                                     | 120 to 140                   | °C                |                |
| Injection Rate                                       | Fast                         |                   |                |
| NOTE                                                 |                              |                   |                |
| 1.                                                   | at 60 Mpa of cavity pressure |                   |                |
| 2.                                                   | 20,000 hr                    |                   |                |
| 3.                                                   | Without Surfactant           |                   |                |

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