

# Laril 13 G/30-V1

Polyphenylene Ether + PS

LATI S.p.A.

## Message:

Compound based on Modified Polyphenylene Oxyde (PPOm).

Glass fibres. UL94 V-1 classified, halogens and red phosphorous free. Product UL certified.

High dimensional stability. Good thermal resistance.

| General Information            |                                  |                   |             |
|--------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                  | E54080-244054                    |                   |             |
| Filler / Reinforcement         | Glass Fiber,30% Filler by Weight |                   |             |
| Features                       | Good Dimensional Stability       |                   |             |
|                                | Halogen Free                     |                   |             |
|                                | Low (to None) Phosphorus Content |                   |             |
|                                | Medium Heat Resistance           |                   |             |
| Physical                       | Nominal Value                    | Unit              | Test Method |
| Density                        | 1.28                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> |                                  |                   | ISO 294-4   |
| Across Flow : 2.00 mm          | 0.45 to 0.65                     | %                 |             |
| Flow : 2.00 mm                 | 0.35 to 0.60                     | %                 |             |
| Mechanical                     | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                |                                  |                   | ISO 527-2/1 |
| 23°C                           | 8600                             | MPa               |             |
| 60°C                           | 7800                             | MPa               |             |
| 90°C                           | 6600                             | MPa               |             |
| 120°C                          | 4500                             | MPa               |             |
| Tensile Stress                 |                                  |                   | ISO 527-2/5 |
| Yield, 120°C                   | 40.0                             | MPa               |             |
| Break, 23°C                    | 95.0                             | MPa               |             |
| Break, 60°C                    | 80.0                             | MPa               |             |
| Break, 90°C                    | 65.0                             | MPa               |             |
| Break, 120°C                   | 40.0                             | MPa               |             |
| Tensile Strain                 |                                  |                   | ISO 527-2/5 |
| Yield, 120°C                   | 1.0                              | %                 |             |
| Break, 23°C                    | 1.5                              | %                 |             |
| Break, 60°C                    | 1.5                              | %                 |             |
| Break, 90°C                    | 1.8                              | %                 |             |
| Break, 120°C                   | 2.5                              | %                 |             |
| Impact                         | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength |                                  |                   | ISO 179/1eA |

| -20°C                                                | 6.0                          | kJ/m <sup>2</sup> |                |
|------------------------------------------------------|------------------------------|-------------------|----------------|
| 23°C                                                 | 7.0                          | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength                     |                              |                   | ISO 179/1eU    |
| -20°C                                                | 20                           | kJ/m <sup>2</sup> |                |
| 23°C                                                 | 18                           | kJ/m <sup>2</sup> |                |
| Notched Izod Impact (23°C, 3.20 mm)                  | 95                           | J/m               | ASTM D256A     |
| Thermal                                              | Nominal Value                | Unit              | Test Method    |
| Heat Deflection Temperature                          |                              |                   |                |
| 0.45 MPa, Unannealed                                 | 130                          | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                                  | 125                          | °C                | ISO 75-2/A     |
| Continuous Use Temperature <sup>2</sup>              | 115                          | °C                |                |
| Vicat Softening Temperature                          | 135                          | °C                | ISO 306/B50    |
| CLTE - Flow (30 to 100°C)                            | 2.0E-6                       | cm/cm/°C          | ASTM D696      |
| Electrical                                           | Nominal Value                | Unit              | Test Method    |
| Comparative Tracking Index <sup>3</sup> (Solution A) | 225                          | V                 | IEC 60112      |
| Flammability                                         | Nominal Value                | Unit              | Test Method    |
| Flame Rating (1.50 mm)                               | V-1                          |                   | UL 94          |
| Glow Wire Flammability Index                         |                              |                   | IEC 60695-2-12 |
| 1.00 mm                                              | 960                          | °C                |                |
| 2.00 mm                                              | 960                          | °C                |                |
| Oxygen Index                                         | 31                           | %                 | ASTM D2863     |
| Injection                                            | Nominal Value                | Unit              |                |
| Drying Temperature                                   | 80.0 to 90.0                 | °C                |                |
| Drying Time                                          | 3.0                          | hr                |                |
| Processing (Melt) Temp                               | 270 to 280                   | °C                |                |
| Mold Temperature                                     | 80.0 to 90.0                 | °C                |                |
| Injection Rate                                       | Moderate                     |                   |                |
| NOTE                                                 |                              |                   |                |
| 1.                                                   | at 60 Mpa of cavity pressure |                   |                |
| 2.                                                   | 20,000 hr                    |                   |                |
| 3.                                                   | Without Surfactant           |                   |                |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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