

## Optilac LGM

The Materials Group - *Acrylonitrile Butadiene Styrene*

### General Information

#### General

|                   |   |
|-------------------|---|
| Material Status   | • Commercial: Active                                      |
| Availability      | • North America   |
| Features          | • Low Gloss                      • Medium Heat Resistance |
| Uses              | • Automotive Applications                                 |
| Appearance        | • Natural Color   |
| Forms             | • Pellets   |
| Processing Method | • Injection Molding                                       |

### Properties <sup>1</sup>

| Physical  | Nominal Value | Unit                   | Test Method |
|---|---------------|------------------------|-------------|
| Density   | 1.06          | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)             | 10            | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage                                       | 0.30 to 0.60  | %                      | ISO 294-4   |
| Mechanical  | Nominal Value | Unit                   | Test Method |
| Tensile Stress (Yield)                                  | 6530          | psi                    | ISO 527-2   |
| Tensile Strain (Break)                                  | 50            | %                      | ISO 527-2   |
| Flexural Modulus  | 290000        | psi                    | ISO 14125   |
| Flexural Stress   | 10200         | psi                    | ISO 14125   |
| Impact  | Nominal Value | Unit                   | Test Method |
| Notched Izod Impact Strength (73°F)                     | 11            | ft·lb/in <sup>2</sup>  | ISO 180/1A  |
| Thermal   | Nominal Value | Unit                   | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 181           | °F                     | ISO 75-2/A  |
| Deflection Temperature Under Load (264 psi, Annealed)   | 216           | °F                     | ISO 75-2/A  |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

