

### Technical Data Sheet

## IPETHENE® 600

### Low Density Polyethylene



#### Product Description

**IPETHENE® 600** is a low-density polyethylene injection molding grade, produced by high-pressure autoclave technology.

#### Features:

- No additives
- Good stiffness

#### Uses:

- Caps and closures
- Household articles
- Containers
- Toys

#### Processing Methods:

- Injection molding

| Properties                         |                 | Method      | Typical Value* | Unit              |
|------------------------------------|-----------------|-------------|----------------|-------------------|
| <b>Physical</b>                    |                 |             |                |                   |
| <b>Melt Flow Rate</b>              | (190°C/2.16 kg) | ISO 1133    | 6.5            | g/10 min          |
| <b>Density</b>                     |                 | ISO 1183-A  | 0.917          | g/cm <sup>3</sup> |
| <b>Shore Hardness</b>              | 'D' Scale       | ISO 868     | 45             |                   |
| <b>Thermal</b>                     |                 |             |                |                   |
| <b>Peak Melting Temperature</b>    | By DSC          | ISO 11357-3 | 107            | °C                |
| <b>Vicat Softening Temperature</b> | (10 N)          | ISO 306     | 86             | °C                |
| <b>Mechanical</b>                  |                 |             |                |                   |
| <b>Tensile Stress at Break</b>     |                 | ISO 527-2   | 11             | MPa               |
| <b>Tensile Strain at Break</b>     |                 | ISO 527-2   | 90             | %                 |

\*Typical values; not to be construed as specifications.

#### Processing Recommendations

IPETHENE® 600 can be easily processed on conventional injection molding machines. Due to differences in machine type, part shape and mold design, processing conditions should be optimized for each production line.

Typical temperature profile: Barrel 160-220°C; Mold 10-40°C.

#### Health, Quality, Regulations and Safety

This product is not classified as dangerous substance and intended for industrial use, to produce plastic articles. Material safety data sheets, international standards certificates and other regulatory documents are available on our website. Carmel Olefins products have not been tested and therefore not validated for use in pharmaceutical/medical applications, and their suitability for these uses cannot be guaranteed. It is the customer's responsibility to test and approve their technical and regulatory suitability in order to satisfy themselves as to the particular purpose and application(s).

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