

## Technical Data Sheet

### *Icorene* 1050 BLK 9001



High Density Polyethylene

#### Product Description

*Icorene* 1050 is a high density polyethylene specifically developed for rotational moulding. This grade is a very fast processing material suitable for use in many different applications. It has a good balance of properties such as toughness and stiffness.

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| <b>Processing Method</b> | Rotomolding                                                                              |
| <b>Attribute</b>         | Good Processability; Good Stiffness/Impact Balance; High Impact Resistance; UV Resistant |
| <b>Forms</b>             | Powder                                                                                   |
| <b>Appearance</b>        | Natural Color; Unspecified Color                                                         |
| <b>Additive</b>          | UV Stabilizer                                                                            |
| <b>Application</b>       | Tanks; Water Sports Equipment                                                            |

| Typical Properties                                      | Nominal Value | Units             | Test Method |
|---------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                         |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                        | 3.8           | g/10 min          | ASTM D1238  |
| Density                                                 | 0.947         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                       |               |                   |             |
| Tensile Strength at Yield                               | 25            | MPa               | ASTM D638   |
| Flexural Modulus                                        | 965           | MPa               | ASTM D790   |
| Tensile Elongation at Break                             | 610           | %                 | ASTM D638   |
| <b>Impact</b>                                           |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method)       | 170           | J/cm              | ASTM D4226  |
| <b>Hardness</b>                                         |               |                   |             |
| Durometer Hardness, (Shore D)                           | 65            |                   | ASTM D2240  |
| <b>Thermal</b>                                          |               |                   |             |
| Vicat Softening Temperature, (A (10N))                  | 122           | °C                | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 72            | °C                | ISO 75-2/B  |
| Melting Temperature                                     | 130           | °C                | DSC         |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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