Technical Data Sheet

# *Icorene* 3940 YEW 2544

High Density Polyethylene

## Product Description

*Icorene* 3940 is a high density polyethylene specifically developed for rotational moulding.This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness and stiffness.

## Regulatory Status

For regulatory compliance information, see *Icorene* 3940 YEW 2544 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Commercial: Active |
| **Availability** | Europe |
| **Processing Method** | Rotomolding |
| **Attribute** | Good Processability; Good Stiffness; Good Toughness; UV Resistant |
| **Forms** | Powder |
| **Appearance** | Natural Color; Unspecified Color |
| **Additive** | UV Stabilizer |
| **Application** | Containers; General Purpose; Tanks |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 4.0 | g/10 min | ASTM D1238 |
| Density | 0.939 | g/cm³ | ASTM D1505 |
| **Mechanical** | | | |
| Tensile Strength at Yield, (50 mm/min, 23 °C, 3.20 mm) | 19.0 | MPa | ISO 527-1 |
| Tensile Strength at Break, (50 mm/min, 23 °C, 3.20 mm) | 20.0 | MPa | ISO 527-1 |
| Flexural Modulus | 730 | MPa | ISO 178 |
| Environmental Stress Crack Resistance, (100% Igepal, 50 °C) | >1000 | hr | ASTM D1693 |
| Tensile Elongation at Break, (50 mm/min, 23 °C, 3.20 mm) | >280 | % | ISO 527-1 |
| **Impact** | | | |
| Drop Impact Resistance, (-20 °C, Internal Method) | 170 | J/cm | ASTM D4226 |
| **Hardness** | | | |
| Durometer Hardness, (Shore D) | 60 | | ISO 868 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A (10N)) | 118 | °C | ISO 306 |
| Melting Temperature | 128 | °C | DSC |



Manufacturer website: https://www.lyondellbasell.com/en/

## 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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