# Icorene 3570-7726GST LIME SURF GRN

## LyondellBasell Industries - Linear Low Density Polyethylene

### General Information

**Product Description**

Icorene 3570 is a linear low density polyethylene for rotational molding applications such as high end coolers, toys, playgrounds, tanks, etc. The grade is UV stabilized and suitable for applications requiring good stiffness and processability. Very good mold surface finish.

**General**

| | | | |
|---|---|---|---|
| Additive | • UV Stabilizer | | |
| Features | • Good Toughness | • UV Resistant | • UV Stabilized |
| Uses | • General Purpose | • Outdoor Applications | • Sporting Goods |
| Appearance | • Colors Available | | |
| Forms | • Powder | | |
| Processing Method | • Rotational Molding | | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.935 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 6.8 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (ESCR) | | | |
| 10% Igepal, F50 | 50.0 | hr | ASTM D1693 |
| 100% Igepal, F50 | > 1000 | hr | ASTM D1693A |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [2] (Yield) | 2650 | psi | ASTM D638 |
| Flexural Modulus - 1% Secant [3] | 101000 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Impact Strength | | | ARM |
| -40°F, 0.125 in, Rotational Molded | 50 | ft·lb | |
| -40°F, 0.250 in, Rotational Molded | 190 | ft·lb | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (66 psi, Unannealed) | 135 | °F | ASTM D648 |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi, Unannealed, 0.0492 in, Rotational Molded | 101 | °F | |

### Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min

[3] 0.051 in/min