

# Eraclene® MR 80 U

High Density Polyethylene

Versalis S.p.A.

## Message:

Eraclene MR 80 U is a high density polyethylene resin (HDPE), with antioxidants, suitable for injection moulding application. Eraclene MR 80 U shows a good balance between processability and mechanical properties.

### Main Application

Eraclene MR 80 U is specifically designed for houseware and thin-walled containers.

| General Information                                   |                                     |                   |                 |
|---|-------------------------------------|-------------------|-----------------|
| Additive  | Antioxidant                         |                   |                 |
| Features  | Antioxidant                         |                   |                 |
|   | Food Contact Acceptable             |                   |                 |
| Uses  | Household Goods                     |                   |                 |
|   | Thin-walled Containers              |                   |                 |
| Agency Ratings  | EU Food Contact, Unspecified Rating |                   |                 |
| Forms   | Pellets                             |                   |                 |
| Processing Method                                     | Injection Molding                   |                   |                 |
| Physical  | Nominal Value                       | Unit              | Test Method     |
| Density   | 0.954                               | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)             | 18                                  | g/10 min          | ISO 1133        |
| Hardness  | Nominal Value                       | Unit              | Test Method     |
| Shore Hardness (Shore D, Compression Molded)          | 65                                  |                   | ISO 868         |
| Mechanical  | Nominal Value                       | Unit              | Test Method     |
| Tensile Stress  |                                     |                   | ISO 527-2       |
| Yield, Compression Molded                             | 27.0                                | MPa               |                 |
| Break, Compression Molded                             | 14.0                                | MPa               |                 |
| Tensile Strain (Break, Compression Molded)            | 200                                 | %                 | ISO 527-2       |
| Flexural Modulus (Compression Molded)                 | 1250                                | MPa               | ISO 178         |
| Impact  | Nominal Value                       | Unit              | Test Method     |
| Notched Izod Impact <sup>1</sup> (Compression Molded) | 45                                  | J/m               | ISO 180         |
| Thermal   | Nominal Value                       | Unit              | Test Method     |
| Brittleness Temperature                               | < -60.0                             | °C                | ASTM D746       |
| Vicat Softening Temperature                           | 126                                 | °C                | ISO 306/A       |
| Melting Temperature                                   | 135                                 | °C                | Internal Method |
| Injection   | Nominal Value                       | Unit              |                 |

|                    |              |    |
|--------------------|--------------|----|
| Rear Temperature   | 190 to 260   | °C |
| Middle Temperature | 190 to 260   | °C |
| Front Temperature  | 190 to 260   | °C |
| Mold Temperature   | 10.0 to 40.0 | °C |

NOTE

1.
- Method A

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