

# DuPure® T 88 E

Polypropylene Homopolymer

Ducor Petrochemicals BV

## Message:

**Description**  
DuPure T 88 E is a polypropylene homopolymer fibre grade characterized by high flowability, a narrow to medium molecular weight distribution, and medium crystallinity, providing excellent and consistent process- and product behaviour. The product comprises an advanced phenol free stabilizer package, providing superior gas fading resistance and inherent basic UV stability.

**Applications**  
DuPure T 88 E is suitable for: continuous filaments (CF), high-resilience bulked continuous filaments (BCF), and fine denier staple fibres.

| General Information |                                      |                   |             |
|---------------------|--------------------------------------|-------------------|-------------|
| Additive            | Anti-gas fading                      |                   |             |
|                     | UV Stabilizer                        |                   |             |
| Features            | Food Contact Acceptable              |                   |             |
|                     | Gas-fading Resistant                 |                   |             |
|                     | Good Processability                  |                   |             |
|                     | Good UV Resistance                   |                   |             |
|                     | High Flow                            |                   |             |
|                     | Homopolymer                          |                   |             |
|                     | Narrow Molecular Weight Distribution |                   |             |
|                     | Resilient                            |                   |             |
| Uses                | Fibers                               |                   |             |
|                     | Filaments                            |                   |             |
|                     | Staple Fibers                        |                   |             |
| Agency Ratings      | EC 1907/2006 (REACH)                 |                   |             |
|                     | EC 1935/2004                         |                   |             |
|                     | EN 71-3                              |                   |             |
|                     | EU 10/2011                           |                   |             |
|                     | EU 2000/53/EC                        |                   |             |
|                     | EU 2002/96/EC (WEEE)                 |                   |             |
|                     | EU 2005/84/EC                        |                   |             |
|                     | EU 94/62/EC                          |                   |             |
|                     | FDA 21 CFR 177.1520(a) 1 (i)         |                   |             |
|                     | FDA 21 CFR 177.1520(c) 1.1a          |                   |             |
| RoHS Compliance     | RoHS Compliant                       |                   |             |
| Physical            | Nominal Value                        | Unit              | Test Method |
| Density             | 0.910                                | g/cm <sup>3</sup> | ISO 1183    |

| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 25            | g/10 min          | ISO 1133     |
|-------------------------------------------|---------------|-------------------|--------------|
| Hardness                                  | Nominal Value | Unit              | Test Method  |
| Ball Indentation Hardness (H 358/30)      | 78.0          | MPa               | ISO 2039-1   |
| Mechanical                                | Nominal Value | Unit              | Test Method  |
| Tensile Modulus                           | 1500          | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)                    | 35.0          | MPa               | ISO 527-2/50 |
| Tensile Strain                            |               |                   | ISO 527-2/50 |
| Yield                                     | 8.0           | %                 |              |
| Break                                     | > 50          | %                 |              |
| Impact                                    | Nominal Value | Unit              | Test Method  |
| Charpy Notched Impact Strength            |               |                   | ISO 179/1eA  |
| -30°C                                     | 1.5           | kJ/m <sup>2</sup> |              |
| 23°C                                      | 2.5           | kJ/m <sup>2</sup> |              |
| Charpy Unnotched Impact Strength          |               |                   | ISO 179/1eU  |
| -30°C                                     | 13            | kJ/m <sup>2</sup> |              |
| 23°C                                      | 110           | kJ/m <sup>2</sup> |              |
| Thermal                                   | Nominal Value | Unit              | Test Method  |
| Heat Deflection Temperature               |               |                   |              |
| 0.45 MPa, Unannealed                      | 85.0          | °C                | ISO 75-2/B   |
| 1.8 MPa, Unannealed                       | 55.0          | °C                | ISO 75-2/A   |
| Vicat Softening Temperature               |               |                   |              |
| --                                        | 154           | °C                | ISO 306/A    |
| --                                        | 90.0          | °C                | ISO 306/B    |
| Melting Temperature (DSC)                 | 163           | °C                | ISO 3146     |

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