

# DuPure® ST 76 V

Polypropylene Impact Copolymer

Ducor Petrochemicals BV

## Message:

### Description

DuPure ST 76 V is a controlled rheology modified, nucleated heterophasic polypropylene copolymer. The product contains a narrow molecular weight distribution and excellent flow properties.

### Applications

DuPure ST 76 V is suitable for: closures, housewares, general injection moulding applications.

| General Information                       |                                      |                   |             |
|-------------------------------------------|--------------------------------------|-------------------|-------------|
| Additive                                  | Nucleating Agent                     |                   |             |
| Features                                  | Controlled Rheology                  |                   |             |
|                                           | Food Contact Acceptable              |                   |             |
|                                           | General Purpose                      |                   |             |
|                                           | High Flow                            |                   |             |
|                                           | Impact Copolymer                     |                   |             |
|                                           | Narrow Molecular Weight Distribution |                   |             |
| Uses                                      | Nucleated                            |                   |             |
|                                           | Closures                             |                   |             |
|                                           | General Purpose                      |                   |             |
|                                           | Household Goods                      |                   |             |
| 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) 3 (i)         |                   |             |
| RoHS Compliance                           | FDA 21 CFR 177.1520(c) 3.1a          |                   |             |
|                                           | RoHS Compliant                       |                   |             |
| Processing Method                         | Injection Molding                    |                   |             |
| 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) | 62.0          | MPa               | ISO 2039-1   |
|--------------------------------------|---------------|-------------------|--------------|
| Mechanical                           | Nominal Value | Unit              | Test Method  |
| Tensile Modulus                      | 1200          | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)               | 27.0          | MPa               | ISO 527-2/50 |
| Tensile Strain                       |               |                   | ISO 527-2/50 |
| Yield                                | 7.0           | %                 |              |
| Break                                | > 50          | %                 |              |
| Shear Modulus                        | 590           | MPa               | ISO 6721-2   |
| Impact                               | Nominal Value | Unit              | Test Method  |
| Charpy Notched Impact Strength       |               |                   | ISO 179/1eA  |
| -30°C                                | 2.5           | kJ/m <sup>2</sup> |              |
| 23°C                                 | 5.0           | kJ/m <sup>2</sup> |              |
| Charpy Unnotched Impact Strength     |               |                   | ISO 179/1eU  |
| -30°C                                | 67            | kJ/m <sup>2</sup> |              |
| 23°C                                 | No Break      |                   |              |
| Notched Izod Impact Strength         |               |                   | ISO 180/1A   |
| -30°C                                | 2.8           | kJ/m <sup>2</sup> |              |
| 23°C                                 | 5.0           | kJ/m <sup>2</sup> |              |
| Thermal                              | Nominal Value | Unit              | Test Method  |
| Heat Deflection Temperature          |               |                   |              |
| 0.45 MPa, Unannealed                 | 90.0          | °C                | ISO 75-2/B   |
| 1.8 MPa, Unannealed                  | 53.0          | °C                | ISO 75-2/A   |
| Vicat Softening Temperature          |               |                   |              |
| --                                   | 151           | °C                | ISO 306/A    |
| --                                   | 68.0          | °C                | ISO 306/B    |
| Melting Temperature (DSC)            | 163           | °C                | ISO 3146     |

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