

# Ducor® 1040TC

Polypropylene Homopolymer

Ducor Petrochemicals BV

## Message:

Ducor 1040TC is a CR modified homopolymer. The product is nucleated and contains an anti-electrostatic agent, and shows a very good flowability and excellent stiffness.

Food Contact Applications: This grade is in compliance with most regulations regarding food contact applications (EU, FDA). Specific information is available upon request.

Applications

thinwalled packaging

| General Information |                                |                   |             |
|---------------------|--------------------------------|-------------------|-------------|
| Additive            | Nucleating agent               |                   |             |
|                     | Antistatic property            |                   |             |
| Features            | Nucleated                      |                   |             |
|                     | Rigid, good                    |                   |             |
|                     | Homopolymer                    |                   |             |
|                     | Antistatic property            |                   |             |
|                     | Good liquidity                 |                   |             |
|                     | Compliance of Food Exposure    |                   |             |
| Uses                | Thin wall packaging            |                   |             |
| Agency Ratings      | EC 1907/2006 (REACH)           |                   |             |
|                     | EC 1935/2004                   |                   |             |
|                     | EN 71-3                        |                   |             |
|                     | EU 2000/53/EC                  |                   |             |
|                     | EU 2002/96/EC (WEEE)           |                   |             |
|                     | EU 2005/84/EC                  |                   |             |
|                     | EU 94/62/EC                    |                   |             |
|                     | FDA 21 CFR 176.170(c), Table 1 |                   |             |
|                     | FDA 21 CFR 176.170(c), table 2 |                   |             |
|                     | FDA 21 CFR 177.1520(a) 1 (i)   |                   |             |
|                     | FDA 21 CFR 177.1520(b)         |                   |             |
|                     | FDA 21 CFR 177.1520(c) 1.1a    |                   |             |
|                     | Europe 10/1/2011 12:00:00 AM   |                   |             |
| RoHS Compliance     | RoHS compliance                |                   |             |
| 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) | 48            | g/10 min          | ISO 1133     |
|-------------------------------------------|---------------|-------------------|--------------|
| Hardness                                  | Nominal Value | Unit              | Test Method  |
| Ball Indentation Hardness (H 358/30)      | 90.0          | MPa               | ISO 2039-1   |
| Mechanical                                | Nominal Value | Unit              | Test Method  |
| Tensile Modulus                           | 2000          | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)                    | 40.0          | MPa               | ISO 527-2/50 |
| Tensile Strain                            |               |                   | ISO 527-2/50 |
| Yield                                     | 7.0           | %                 | ISO 527-2/50 |
| Fracture                                  | > 20          | %                 | ISO 527-2/50 |
| Shear Modulus                             | 1050          | MPa               | ISO 6721-2   |
| Impact                                    | Nominal Value | Unit              | Test Method  |
| Charpy Notched Impact Strength            |               |                   | ISO 179/1eA  |
| -30°C                                     | 1.4           | kJ/m <sup>2</sup> | ISO 179/1eA  |
| 23°C                                      | 3.2           | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy Unnotched Impact Strength          |               |                   | ISO 179/1eU  |
| -30°C                                     | 13            | kJ/m <sup>2</sup> | ISO 179/1eU  |
| 23°C                                      | 90            | kJ/m <sup>2</sup> | ISO 179/1eU  |
| Notched Izod Impact                       |               |                   | ISO 180/1A   |
| -30°C                                     | 1.5           | kJ/m <sup>2</sup> | ISO 180/1A   |
| 23°C                                      | 3.0           | kJ/m <sup>2</sup> | ISO 180/1A   |
| Thermal                                   | Nominal Value | Unit              | Test Method  |
| Heat Deflection Temperature               |               |                   |              |
| 0.45 MPa, not annealed                    | 105           | °C                | ISO 75-2/B   |
| 1.8 MPa, not annealed                     | 62.0          | °C                | ISO 75-2/A   |
| Vicat Softening Temperature               |               |                   |              |
| --                                        | 157           | °C                | ISO 306/A    |
| --                                        | 100           | °C                | ISO 306/B    |
| Melting Temperature (DSC)                 | 163           | °C                | ISO 3146     |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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