

# Ducor® 1040 RC

Polypropylene Homopolymer

Ducor Petrochemicals BV

## Message:

Ducor 1040RC is a CR-modified and nucleated homopolymer. Ducor 1040RC has been designed with a very high stiffness and good flowability. Food Contact Applications: This grade is in compliance with most regulations regarding food contact applications (EU, FDA). Specific information is available upon request.

| General Information                       |                              |                   |             |
|-------------------------------------------|------------------------------|-------------------|-------------|
| Additive                                  | Nucleating Agent             |                   |             |
| Features                                  | Controlled Rheology          |                   |             |
|                                           | Food Contact Acceptable      |                   |             |
|                                           | Good Flow                    |                   |             |
|                                           | High Stiffness               |                   |             |
|                                           | Homopolymer                  |                   |             |
|                                           | Nucleated                    |                   |             |
| Uses                                      | Furniture                    |                   |             |
|                                           | Household Goods              |                   |             |
|                                           | Thin-walled Packaging        |                   |             |
| 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) | 23                           | g/10 min          | ISO 1133    |
| Hardness                                  | Nominal Value                | Unit              | Test Method |
| Ball Indentation Hardness (H 358/30)      | 93.0                         | 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           | %                 |              |
| Break                            | > 20          | %                 |              |
| Shear Modulus                    | 1050          | MPa               | ISO 6721-2   |
| 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                             | 90            | kJ/m <sup>2</sup> |              |
| Notched Izod Impact Strength     |               |                   | ISO 180/1A   |
| -30°C                            | 1.3           | kJ/m <sup>2</sup> |              |
| 23°C                             | 2.5           | kJ/m <sup>2</sup> |              |
| Thermal                          | Nominal Value | Unit              | Test Method  |
| Heat Deflection Temperature      |               |                   |              |
| 0.45 MPa, Unannealed             | 105           | °C                | ISO 75-2/B   |
| 1.8 MPa, Unannealed              | 62.0          | °C                | ISO 75-2/A   |
| Vicat Softening Temperature      |               |                   |              |
| --                               | 157           | °C                | ISO 306/A    |
| --                               | 100           | °C                | ISO 306/B    |
| Melting Temperature (DSC)        | 165           | °C                | ISO 3146     |
| Optical                          | Nominal Value | Unit              | Test Method  |
| Haze (1000 µm, Injection Molded) | 70            | %                 | ASTM D1003   |

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