

# DuClear® QR 80 A

Polypropylene Random Copolymer

Ducor Petrochemicals BV

Message:

Description

DuClear QR 80 A is a polypropylene random copolymer, suitable for injection moulding applications. The product is clarified and contains an anti-electrostatic agent. DuClear QR 80 A features a very good transparency and aesthetic appearance, a good balance of stiffness and impact strength, good organoleptics, low blooming, and energy & cycle time savings.

Applications

DuClear QR 80 A is suitable for: high-transparency houseware, caps- & closures, packaging.

| General Information |                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additive            | Antistatic<br>Clarifier                                                                                                                                                                               |
| Features            | Antistatic<br>Food Contact Acceptable<br>Good Organoleptic Properties<br>High Clarity<br>Low Blooming<br>Pleasing Surface Appearance<br>Random Copolymer                                              |
| Uses                | Caps<br>Closures<br>Household Goods<br>Packaging<br>Transparent Parts                                                                                                                                 |
| Agency Ratings      | EC 1907/2006 (REACH)<br>EC 1935/2004<br>EN 71-3<br>EU 10/2011<br>EU 2000/53/EC<br>EU 2002/96/EC (WEEE)<br>EU 2005/84/EC<br>EU 94/62/EC<br>FDA 21 CFR 177.1520(a) 3 (i)<br>FDA 21 CFR 177.1520(c) 3.1a |
| RoHS Compliance     | RoHS Compliant                                                                                                                                                                                        |
| Appearance          | Clear/Transparent                                                                                                                                                                                     |

|                                           |                   |                   |              |
|-------------------------------------------|-------------------|-------------------|--------------|
| 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) | 11                | g/10 min          | ISO 1133     |
| Mechanical                                | Nominal Value     | Unit              | Test Method  |
| Tensile Modulus                           | 1100              | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)                    | 28.0              | MPa               | ISO 527-2/50 |
| Tensile Strain                            |                   |                   | ISO 527-2/50 |
| Yield                                     | 12                | %                 |              |
| Break                                     | > 50              | %                 |              |
| Impact                                    | Nominal Value     | Unit              | Test Method  |
| Charpy Notched Impact Strength            |                   |                   | ISO 179/1eA  |
| 0°C                                       | 2.0               | kJ/m <sup>2</sup> |              |
| 23°C                                      | 5.5               | kJ/m <sup>2</sup> |              |
| Charpy Unnotched Impact Strength          |                   |                   | ISO 179/1eU  |
| 0°C                                       | 70                | kJ/m <sup>2</sup> |              |
| 23°C                                      | 200               | kJ/m <sup>2</sup> |              |
| Notched Izod Impact Strength              |                   |                   | ISO 180/1A   |
| 0°C                                       | 2.0               | kJ/m <sup>2</sup> |              |
| 23°C                                      | 4.5               | kJ/m <sup>2</sup> |              |
| Thermal                                   | Nominal Value     | Unit              | Test Method  |
| Heat Deflection Temperature               |                   |                   |              |
| 0.45 MPa, Unannealed                      | 75.0              | °C                | ISO 75-2/B   |
| 1.8 MPa, Unannealed                       | 50.0              | °C                | ISO 75-2/A   |
| Vicat Softening Temperature               |                   |                   |              |
| --                                        | 130               | °C                | ISO 306/A    |
| --                                        | 72.0              | °C                | ISO 306/B    |
| Melting Temperature (DSC)                 | 151               | °C                | ISO 3146     |
| Optical                                   | Nominal Value     | Unit              | Test Method  |
| Haze (1000 μm)                            | 8.0               | %                 | ASTM D1003   |

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