



Domolen 1040RC

Domolen 1040RC is a CR-modified and nucleated homopolymer. Domolen 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.

Properties (Typical values)

| Properties | Unit | Test method | Value | |
|--|-------------------|-------------------|---------------|-----|
| <u>Melt flow rate</u> MFR 230 / 2. 16 | g/10 min | ISO 1133 | 23 | |
| <u>Technical properties</u> | | | | |
| Tensile modulus of elasticity (v = 1mm/min) | MPa | ISO 527-2 | 2000 | |
| Tensile yield stress (v = 50mm/min) | MPa | ISO 527-2 | 40 | |
| Tensile yield strain (v = 50mm/min) | % | ISO 527-2 | 7 | |
| Tensile strain at break (v = 50mm/min) | % | ISO 527-2 | >20 | |
| Shear modulus | MPa | ISO 6721-2 | 1050 | |
| Charpy impact strength notched | + 23°C | kJ/m ² | ISO 179 / 1eA | 2.5 |
| | - 30°C | kJ/m ² | ISO 179 / 1eA | 1.5 |
| Charpy impact strength unnotched | + 23°C | kJ/m ² | ISO 179 / 1eU | 90 |
| | - 30°C | kJ/m ² | ISO 179 / 1eU | 13 |
| Izod impact strength notched | + 23°C | kJ/m ² | ISO 180 / 1A | 2.5 |
| | - 30°C | kJ/m ² | ISO 180 / 1A | 1.3 |
| Ball indentation hardness (H 358/30) | MPa | ISO 2039-1 | 93 | |
| <u>Thermal properties</u> | | | | |
| Melting point, DSC | °C | ISO 3146 | 165 | |
| Heat deflection temperature: | | | | |
| - HDT / A (1.8 MPa) | °C | ISO 75-2 | 62 | |
| - HDT / B (0.45 MPa) | °C | ISO 75-2 | 105 | |
| Vicat softening temperature: | | | | |
| - VST / A (10N) | °C | ISO 306 | 157 | |
| - VST / B (50N) | °C | ISO 306 | 100 | |
| <u>Other properties</u> | | | | |
| Haze (<i>injection moulded disk, 1 mm thick</i>) | % | ASTM D 1003 | 70 | |
| Density | g/cm ³ | ISO 1183 | 0.91 | |
| <u>Applications</u> | | | | |
| Furniture, thinwalled packaging, houseware | | | | |

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For further information please contact: polypropylene@domo.org

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