# Product Data and Technical Information

**POLYMER TYPE:** Polypropylene Homopolymer Granule

**GRADE NAME:** RG 1101 XXR

**APPLICATION:** BCF/CF, POY yarns, Nonwovens, Injection molding of articles

**PRODUCT FEATURES:** Homopolymer with slightly narrow MWD and resistance to gas fading

**PROCESSING METHOD:** Extrusion

| Property | Test Method | Unit | Value |
|---|---|---|---|
| MFR (230 ˚C/ 2.16 kg ) | ASTM D1238/L | g/10min | 22.1 - 24 |
| Flexural Modulus | ASTM D790 | MPa | 1550 |
| Tensile Modulus of Elasticity (1 mm/min) | ASTM D638 | MPa | 1500 |
| Tensile Strength at Yield (50 mm/min) | ASTM D638 | MPa | 34 |
| Tensile Elongation at Yield (50 mm/min) | ASTM D638 | % | 8 |
| Tensile Strength at Break (50 mm/min) | ASTM D638 | MPa | 23 |
| Tensile Elongation at Break (50 mm/min) | ASTM D638 | % | >50 |
| Notched Charpy Impact at 23˚C | ISO 179/ 1eA | $kJ/m^2$ | 2.5 |
| Notched Charpy Impact at -30˚C | ISO 179/ 1eA | $kJ/m^2$ | 1.5 |
| Vicat Softening Point, 10N | ASTM D1525 | ˚C | 154 |
| Ball indentation hardness | ISO 2039-1 | MPa | 78 |
| Rockwell Hardness | ASTM D785 | R Scale | 97 |
| HDT (0.46 $N/mm^2$) | ASTM D648 | ˚C | 85 |
| Melting Point, DSC | ASTM D3417 | ˚C | 163 |
| Density | ASTM D792 | $g/cm^3$ | 0.91 |

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In view of the many factors that may affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply and legally binding assurance of certain properties or of suitability for a specific purpose of the products made with or on the basis of the information in this publication."

**Regal Petrochemical & Industrial Complex**