



**SIRJAN GOSTAR CO.**

## Product Data and Technical Information



**POLYMER TYPE:** POLYPROPYLENE HOMOPOLYMER



**GRADE NAME :** RG 1101 P



**PACKING :** PP bags of 25 kgs, 50 bags on a pallet shrieked by PE



**APPLICATION :** Bulk continuous filaments(BCF) and continuous filaments(CF) with higher resilience



**PRODUCT FEATURES :** Homopolymer with resistance to gas fading



**PROCESSING METHOD :** Extrusion

| Property                                | Test Method  | Unit              | Value |
|-----------------------------------------|--------------|-------------------|-------|
| MFR ( 230° C/ 2.16 Kg )                 | ASTM D1238/L | gr/10min          | 15.5  |
| Tensile Modulus of Elasticity (1mm/min) | ASTM D638    | MPa               | 1500  |
| Tensile Strength at Yield (50 mm/min)   | ASTM D638    | MPa               | 35    |
| Elongation at Yield(50 mm/min)          | ASTM D638    | %                 | 10    |
| Notched Charpy Impact at 23°            | ISO 179/ 1eA | KJ/m <sup>2</sup> | 2.5   |
| Notched Charpy Impact at - 30°          | ISO 179/ 1eA | KJ/m <sup>2</sup> | 1.5   |
| Vicat Softening Point, 10N              | ASTM D1525   | °C                | 154   |
| Ball indentation hardness               | ISO 2039-1   | MPa               | 70    |
| HDT ( 0.46 N/mm <sup>2</sup> )          | ASTM D648    | °C                | 85    |
| Melting Point , DSC                     | ASTM D3417   | °C                | 163   |

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