# H045SG

## HOMOPOLYMER

**FOR WOVEN SACKS & MONOFILAMENTS**

Repol H045SG is PP homopolymer grade recommended for making raffia tapes used in making plastic woven sack. The grade is designed for high speed processing on tape lines and ideal material for low denier raffia tapes. It is formulated with additive package for low water carry over.

**BIS Designation Code: IS 10951-1-TB-A**

### Typical Characteristics

| Property | Test Method | Unit | Typical Value* |
|---|---|---|---|
| Melt Flow Rate (230°C/2.16 kg) | ASTM D1238 | g/10 min | 4.5 |
| Density | ASTM D792 | g/ cc. | 0.90 |
| Tensile Strength at Yield (50 mm/min.) | ASTM D638 | MPa | 32 |
| Elongation at Yield (50 mm/min.) | ASTM D638 | % | 8 |
| Flexural Modulus (1% Secant) | ASTM D790A | MPa | 1350 |
| Notched Izod Impact Strength (23 °C.) | ASTM D256 | J/m | 30 |
| Heat Deflection Temperature (455 KPa) | ASTM D648 | °C | 104 |
| Hardness – Shore D | ASTM D2240 | --- | 70 |

* Typical values. Not to be taken as specifications. All the mechanical properties as per ASTM D638 injection molded Type 1 specimen in accordance with ASTM D4101

### Typical Processing Conditions

Extrusion temperatures: 210 – 250 °C
Water bath temperatures: 30 – 50 °C
Stretching temperatures: ~ 155 °C

Note: Processing parameters mentioned above are for reference only and not to be considered as specifications. They may vary based on the product to be manufactured.

### Applications

Tapes for geotextiles, Packaging sacks and low weight general purpose wrapping fabrics.

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## Regulatory Information

The product complies with Indian Standard IS 10910 on “Specification for polypropylene and its copolymers for safe use in contact with foodstuffs, pharmaceuticals and drinking water. It also conforms to IS 16738:2018 on positive list of constituents for polypropylene, polyethylene and their copolymers for its safe use in contact with foodstuffs and pharmaceuticals. The grade and the additives incorporated in it also comply with FDA:CFR Title 21,177.1520, Olefin polymers.
Not to be used in the manufacture of Single Use Plastic (SUP) items prohibited under PWM Rules, 2016.

## Storage Recommendations

Bags should be stored in dry / closed conditions at temperatures below 50°C and protected from UV / direct sunlight.

### *DISCLAIMER*

*The information contained herein may include typical properties and processing parameters of the grade or its typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer’s responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers’ particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.*

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