

# REPOL® H045SG

Polypropylene Homopolymer

Reliance Industries Limited

## Message:

Repol H045SG is recommended for flat tape yarns for applications like Geotextiles, Packaging sacks & General purpose wrapping fabrics. The grade is specially designed for high speed processing on tape lines with consistent process ability. Repol H045SG is an ideal material for low denier flat tape yarns.

General Information	
Features	Homopolymer Compliance of Food Exposure
Uses	Packaging Strap Filament Line
Agency Ratings	FDA 21 CFR 177.1520 IS 10909 IS 10910

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Injection Molded)	32.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded)	1350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	104	°C	ASTM D648

## NOTE

- Type 1, 50mm/min
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- Type 1

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Recommended distributors for this material

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