

# 1105RC

Polypropylene Homopolymer / Spunbond Nonwoven

## PRODUCT DESCRIPTION

1105RC is a Polypropylene Homopolymer fiber grade characterized by medium flow-ability, narrow molecular weight distribution and medium crystallinity providing stable and consistent process and product behavior. It is especially suitable for spunbond nonwoven and multifilament using for hygiene, medical and other application. The product comprises a balance combination of stabilizers providing qualified gas fading resistance.

## INDUSTRY

- Spunbond nonwoven for hygiene healthcare product, medical industrial and others
- Multifilament
- Raffia & Filament

## PRODUCT FEATURE

- Medium flow ability
- Narrow MWD
- Medium crystallinity
- Gas fading resistance

## REGULATION COMPLIANCE

- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- Halal Certificate

PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Melt Flow Rate (230°C/2.16 kg)	ASTM D1238	g/10 min	25
Density (23°C)	ASTM D792	g/cm <sup>3</sup>	0.90
Mold Shrinkage	IRPC	%	0.7 - 1.5
MECHANICAL PROPERTY			
Tensile Strength at Yield (3.2 mm, 50 mm/min)	ASTM D638	MPa	36
Elongation at Yield (3.2 mm, 50 mm/min)	ASTM D638	%	9
Flexural Modulus (1% Secant, 3.2 mm, 1.3 mm/min)	ASTM D790	MPa	1,400
Izod Notched Impact Strength (3.2 mm, 23°C)	ASTM D256	J/m	28
HARDNESS PROPERTY			
Rockwell Hardness (3.2 mm)	ASTM D785	R Scale	100
THERMAL PROPERTY *Unannealed			
Heat Distortion Temperature (3.2 mm, 0.455 MPa)	ASTM D648	°C	105

Conversion (1 MPa = 10.2 kgf/cm<sup>2</sup> | 1 J/m = 0.1 kgf-cm/cm)

Remark: The values presented above are typical laboratory, not to be construed as specifications and may vary within moderate ranges. The applicability or accuracy of this information or the suitability of our products cannot be guaranteed because users' conditions of use are beyond our control.

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## PROCESSING TECHNIQUE

Cylinder Temperature 180 – 260 °C

However, the actual processing conditions depend on power of machine, equipment and other environments.

## PRODUCT PACKAGING

- 25 kg loose bag
- 25 kg stretch wrap on palletized
- 750 kg Jumbo bag

For further information, contact IRPC's Sales representative.

## STORAGE

The resin should be stored in a dry location with good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Resin should be protected from direct sunlight, temperatures above 38°C (100°F) and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time. The container should be kept closed to prevent contamination. For the additional recommended storage conditions, please refer to SDS.

## SAFETY

This product is not classified as hazardous material for more information please refer to safety data sheet.

## RECYCLING

It is an undisputed fact that the product can be recycled or disposed of without any problem.

### DISCLAIMER

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