

POLIMAXX 1105RC

IRPC Public Company Limited - *Polypropylene Homopolymer*

General Information

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

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Unspecified Additive		
Features	• Gas-fading Resistant • Homopolymer	• Medium Flow • Narrow Molecular Weight Distribution	• Semi Crystalline
Uses	• Hygiene • Medical/Healthcare Applications	• Monofilaments • Spunbond Nonwovens	
Agency Ratings	• EC 1907/2006 (REACH) • EU 2011/65/EC	• EU No 10/2011 • FDA 21 CFR 177.1520	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Spunbond Nonwovens		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage	0.70 to 1.5	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield, 0.126 in)	5220	psi	ASTM D638
Tensile Elongation ³ (Yield, 0.126 in)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (0.126 in)	203000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.126 in)	0.52	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 0.126 in)	100		ASTM D785



Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	221	°F	ASTM D648

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	356 to 500	°F
Cylinder Zone 2 Temp.	356 to 500	°F
Cylinder Zone 3 Temp.	356 to 500	°F
Cylinder Zone 4 Temp.	356 to 500	°F
Cylinder Zone 5 Temp.	356 to 500	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C

³ 2.0 in/min

⁴ 0.051 in/min

