# POLIMAXX 1105SC

**IRPC Public Company Limited - *Polypropylene Homopolymer***

## General Information

**Product Description**

1105SC is a Polypropylene Homopolymer fiber grade characterized by high 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
- Fine Multifilament
- Raffia & Filament

Product Feature:

- High 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 REgualtion (EC) No. 1907/2006
- Halal Certificate

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific | • Europe | • North America |
| Features | • Gas-fading Resistant<br>• High Flow | • Homopolymer<br>• Narrow Molecular Weight Distribution | • Semi Crystalline |
| Uses | • Hygiene<br>• Medical/Healthcare Applications | • Monofilaments<br>• Spunbond Nonwovens | |
| Agency Ratings | • EC 1907/2006 (REACH)<br>• EU 2011/65/EC | • EU No 10/2011<br>• 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) | 35 | 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) | 0.51 | 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** |

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| | | |
|---|---|---|
| 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

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