# POLIMAXX 1140VC

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

## General Information

**Product Description**

1140VC is a Polypropylene Homopolymer with the characteristic of improve high flow ability for production of long path and thin wall injection molding process.

PRODUCT FEATURES:

- Highest flow ability
- High Speed injection molding
- Reduced cycle time
- High Transparency thin-wall
- Dimensional stability

TYPICAL APPLICATION:

- Thin wall packaging
- Long path food container
- Drinking cups
- Complex parts

COMPLIANCE:

- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS
- REACH

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific | • Europe | • North America |
| Features | • Fast Molding Cycle<br>• Food Contact Acceptable | • Good Dimensional Stability<br>• Good Stiffness | • High Flow<br>• Homopolymer |
| Uses | • Cups<br>• Engineering Parts | • Food Containers<br>• Thin-walled Packaging | |
| Agency Ratings | • EU No 10/2011 | • FDA 21 CFR 177.1520 | |
| RoHS Compliance | • RoHS Compliant | | |
| Processing Method | • Injection Molding | | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.902 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 75 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Yield) | 5660 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 9.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | 254000 | psi | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (73°F) | 0.47 | ft·lb/in | ASTM D256 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 109 | | ASTM D785 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (66 psi, Unannealed) | 248 | °F | ASTM D648 |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Haze (39.37 mil) | 40.0 | % | ASTM D1003 |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|

| | |
|---|---|
| Rear Temperature | 374 to 464 °F |
| Middle Temperature | 374 to 464 °F |
| Front Temperature | 374 to 464 °F |
| Mold Temperature | 104 to 140 °F |
| Injection Rate | Slow-Moderate |

**Notes**

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