

POLIMAXX 1102K

IRPC Public Company Limited - *Polypropylene Homopolymer*

General Information

Product Description

1102K is a Polypropylene Homopolymer resin for general purpose monofilament, yarn and extrusion process with the characteristic of good tensile strength and high stiffness.

PRODUCT FEATURES:

- Good processibility
- Good stiffness
- Good tensile strength
- Good mechanical properties
- Excellent chemical resistance

TYPICAL APPLICATION:

- Woven bags
- Flexible intermediate bulk container
- Geotextiles
- Rope
- Tarpaulin
- Straw
- Stretch tape

COMPLIANCE:

- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS
- HALAL
- UL Yellow Card: E132283

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant • Food Contact Acceptable • General Purpose	• Good Processability • Good Stiffness • Good Tensile Strength	• Homopolymer
Uses	• Bags • Containers • General Purpose	• Industrial Applications • Monofilaments • Rope	• Tape • Textile Applications • Yarn
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1520	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Extrusion		

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)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5370	psi	ASTM D638
Tensile Elongation (Yield)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant	232000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.84	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Thermal	Nominal Value	Unit	Test Method



Deflection Temperature Under Load (66 psi, Unannealed)	230 °F	ASTM D648
Flammability	Nominal Value	Unit
Flame Rating	HB	UL 94

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	437 to 491	°F
Cylinder Zone 2 Temp.	437 to 491	°F
Cylinder Zone 3 Temp.	437 to 491	°F
Cylinder Zone 4 Temp.	437 to 491	°F
Cylinder Zone 5 Temp.	437 to 491	°F
Die Temperature	482 to 491	°F

Notes

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

