POLIMAXX 1102K

Polypropylene Homopolymer

IRPC Public Company Limited

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Technical Data

Product Description

1102K is a Polypropylene Homo-polymer resin for extrusion process with the characteristic of good stiffness and good impact. It is suitable for mono-filament and yarn, too. It also meets the F.D.A. requirement in the code of federal regulations in 21 CFR 177.1520 for food contact.

General

Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet (English)		
UL Yellow Card [2]	• E132283-222095		
Search for UL Yellow Card	• IRPC Public Company Limited		
Availability	• Asia Pacific	• Europe	• North America
Features	• Food Contact Acceptable • Good Impact Resistance	• Good Stiffness • Homopolymer	
Uses	• Bags • Industrial Applications • Monofilaments	• Rope • Sheet • Tape	• Yarn
Agency Ratings	• FDA 21 CFR 177.1520		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Extrusion		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	5370 psi	37.0 MPa	ASTM D638
Tensile Elongation (Yield)	27 %	27 %	ASTM D638
Flexural Modulus - 1% Secant	232000 psi	1600 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	2.1 ft·lb/in²	4.5 kJ/m²	DIN 53453
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (R-Scale)	107	107	ASTM D785
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	230 °F	110 °C	

Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	392 to 536 °F	200 to 280 °C

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

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

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