POLIMAXX 1100NK

IRPC Public Company Limited - *Polypropylene Homopolymer*

General Information

Product Description

1100NK is a Polypropylene Homopolymer that may be used in a range of manufacturing processes such as injection molding for general purpose products.

PRODUCT FEATURES:

- Good stiffness
- Food contact & Toys safety
- Odorless

TYPICAL APPLICATION:

- General Purpose Injection
- Food containers
- Toys
- Housewares
- Cap & Closures
- Multifilament fiber
- Electrical parts

COMPLIANCE:

- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS
- REACH
- EN 71-3: Safety of Toys
- UL Yellow Card: E132283
- HALAL

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Food Contact Acceptable • General Purpose	• Good Stiffness • Homopolymer	• Odorless
Uses	• Caps • Closures • Electrical Parts	• Fibers • Food Containers • General Purpose	• Household Goods • Toys
Agency Ratings	• EN 71-3	• 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)	11	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	5220	psi	ASTM D638
Tensile Elongation (Yield)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant	218000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	0.66	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	Test Method
Flame Rating	HB		UL 94

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.