POLIMAXX 2100N

IRPC Public Company Limited - *Polypropylene Impact Copolymer*

General Information

Product Description

2100N is a Polypropylene Impact Copolymer (ICPP) with the characteristic of high stiffness and impact strength balance. It is designed for injection processing such as household parts, containers and pails.

Industry:
- Containers and Pails
- Housewares

Product Feature:
- High Stiffness
- Good Processability

Regulation Compliance:
- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- Halal Certificate

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Food Contact Acceptable • General Purpose	• Good Processability • High Stiffness	• High Strength • Impact Copolymer
Uses	• Containers • General Purpose	• Household Goods • Pails	
Agency Ratings	• EC 1907/2006 (REACH) • EU 2011/65/EC	• 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 [2]	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage	0.80 to 1.5	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield, 0.126 in)	4060	psi	ASTM D638
Tensile Elongation [3] (Yield, 0.126 in)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant [4] (0.126 in)	189000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-4°F, 0.126 in	0.75	ft·lb/in	
73°F, 0.126 in	1.5	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 0.126 in)	93		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	212	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	374 to 464	°F

Mold Temperature	122 to 176 °F
Injection Rate	Slow-Moderate

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