

## POLIMAXX 2300NCA

IRPC Public Company Limited - *Polypropylene Impact Copolymer*

### General Information

#### Product Description

2300NCA is a Polypropylene Impact Copolymer (ICPP) with super high stiffness and high impact strength properties. It is specially designed for injection molding processing such as automotive parts (Battery Cases) and appliance & electronic parts.

Industry:

- Appliance & Electronic Parts
- Battery Cases

Product Feature:

- Extremely High Stiffness
- High Impact Strength
- UV Resistance
- Dimensional Stability

Regulation Compliance:

- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- UL Yellow Card E132283

#### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Dimensional Stability	• High Stiffness	• UV Resistant
	• High Impact Resistance	• Impact Copolymer	
Uses	• Appliance Components	• Battery Cases	
	• Automotive Applications	• Electrical/Electronic Applications	
Agency Ratings	• EC 1907/2006 (REACH)	• EU 2011/65/EC	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity <sup>2</sup>	0.912		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 <sup>3</sup> (Yield, 0.126 in)	4350	psi	ASTM D638
Tensile Elongation <sup>3</sup> (Yield, 0.126 in)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>4</sup> (0.126 in)	210000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F, 0.126 in	0.94	ft·lb/in	
73°F, 0.126 in	2.8	ft·lb/in	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 0.126 in)	95		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	239	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

### Processing Information



<b>Injection</b>		<b>Nominal Value</b>	<b>Unit</b>
Mold Temperature		122 to 176	°F
Injection Rate		Slow-Moderate	
<b>Extrusion</b>		<b>Nominal Value</b>	<b>Unit</b>
Cylinder Zone 1 Temp.		374 to 464	°F
Cylinder Zone 2 Temp.		374 to 464	°F
Cylinder Zone 3 Temp.		374 to 464	°F
Cylinder Zone 4 Temp.		374 to 464	°F
Cylinder Zone 5 Temp.		374 to 464	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 23°C

<sup>3</sup> 2.0 in/min

<sup>4</sup> 0.051 in/min

