POLIMAXX 2500PC

IRPC Public Company Limited - *Polypropylene Impact Copolymer*

General Information

Product Description

2500PC is a Polypropylene Impact Copolymer (ICPP) with high impact properties and high melt flow ability. It is specially designed for injection molding processing such as paint pails applications and other applications that require impact performance.

Industry:
- Containers and Pails
- Household & Houseware Parts

Product Feature:
- High Impact Strength
- 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	• Good Processability • High Flow	• High Impact Resistance • Impact Copolymer	
Uses	• Containers	• 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)	15	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)	3340	psi	ASTM D638
Tensile Elongation [3] (Yield, 0.126 in)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant [4] (0.126 in)	164000	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	2.4	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 0.126 in)	87		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	198	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Mold Temperature	122 to 176	°F

Injection Rate	Slow-Moderate	
Extrusion	**Nominal Value**	**Unit**
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

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

[2] 23°C

[3] 2.0 in/min

[4] 0.051 in/min