

Osterlene® PPC-57-1.4-N

Polypropylene Impact Copolymer

Osterman & Company

Message:

PPC-57-1.4-N is a polypropylene impact copolymer formulated for injection molding applications that require a balance of fast fill, impact strength and stiffness. It offers the benefits of gas-phase technology along with a balance of stiffness, impact strength and gloss.

PPC-57-1.4-N contains a mold release and nucleating agents and exhibits excellent organoleptics.

PPC-57-1.4-N meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply.

General Information			
Additive	Nucleating agent demoulding		
Features	Nucleated Rigid, good Gloss, Medium Impact copolymer Impact resistance, good Good sensory characteristics Compliance of Food Exposure Good demoulding performance		
Uses	Non-specific food applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	57	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	89		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.0	MPa	ASTM D638
Tensile Elongation (Yield)	4.8	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	98.9	°C	ASTM D648

Additional Information

The value listed as Unnotched Izod Impact, ASTM D256, was tested accordance with ASTM 4812.

Injection	Nominal Value	Unit
Rear Temperature	221	°C
Middle Temperature	232	°C
Front Temperature	243	°C
Nozzle Temperature	243	°C
Mold Temperature	210 - 227	°C

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