

Osterlene® PPC20-2.7

High Crystallinity Polypropylene

Osterman & Company

Message:

PPC20-2.7 is a high crystallinity, high impact copolymer resin with medium melt flow rate and excellent processing attributes. It is designed for injection molded small and large appliance parts.

Features of PPC20-2.7 include fast molding cycle, good processability, high stiffness, good heat aging resistance, high impact resistance and low warpage.

Suggested uses include appliances, crates, packaging, consumer applications, industrial applications and tool/tote boxes.

Osterlene PPC20-2.7 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. Contact your Osterman sales representative for more information.

General Information			
Features	Low warpage		
	Rigidity, high		
	High crystallization		
	Impact copolymer		
	Impact resistance, high		
	Workability, good		
	Fast molding cycle		
	Medium liquidity		
	Compliance of Food Exposure		
Uses	Packaging		
	Electrical appliances		
	Tools/Parts Box		
	Industrial application		
	Loading box		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm ³	Internal method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1320	MPa	ISO 527-2
Tensile Strength			
Yield ¹	24.4	MPa	ASTM D638
Yield	24.3	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	4.4	%	ASTM D638

Fracture	3.4	%	ISO 527-2/5
Flexural Modulus			
-- ³	1290	MPa	ASTM D790A
-- ⁴	1480	MPa	ASTM D790B
--	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256A
-40°C	4.0	kJ/m ²	ISO 180/1A
-18°C	4.6	kJ/m ²	ISO 180/1A
23°C	8.4	kJ/m ²	ISO 180/1A
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		
4.	13 mm/min		

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