

TOTAL Polypropylene PPC 3666

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 3666 is a heterophasic copolymer with a Melt Flow Index of 1.5 g/10 min.
This resin offers an outstanding processability in combination with good melt strength and excellent mechanical properties.
Polypropylene PPC 3666 has been developed for the extrusion of corrugated cardboard.
It offers an excellent performance as well in other applications, including sheet and film extrusion and thermoforming.

General Information			
Features	Food Contact Acceptable		
	Good Melt Strength		
	Good Processability		
Uses	Corrugated Sheet		
	Sheet		
Agency Ratings	EU 2002/72/EC		
	EU 2004/1/EC		
	EU 2004/19/EC		
	EU 2005/79/EC		
	EU 2007/19/EC		
	EU 2008/39/EC		
	EU 975/2009/EC		
	FDA 21 CFR 177.1520		
Processing Method	Extrusion		
	Film Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Apparent Density	0.53	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	77		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1300	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2

Tensile Strain (Yield)	11	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	8.0	kJ/m ²	
23°C	> 50	kJ/m ²	
Notched Izod Impact Strength			ISO 180
-20°C	7.0	kJ/m ²	
23°C	> 50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	92.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	130	°C	ISO 306/A50
--	60.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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