

TOTAL Polypropylene PPC 4660

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPC 4660 is heterophasic copolymer with a Melt Flow Index of 3.5 g/10min.
Polypropylene PPC 4660 is characterized by a combination of ease of processing and good manufactured article properties in applications ranging from household to industrial. These include the manufacture of chair shells, pails, crates and other articles requiring a combination of good stiffness and impact properties.

General Information			
Features	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
Uses	Crates		
	Furniture		
	Household Goods		
	Industrial Applications		
	Pails		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
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)	3.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1300	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	7.0	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	7.0	kJ/m ²	
23°C	20	kJ/m ²	
Notched Izod Impact Strength			ISO 180

-20°C	5.5	kJ/m ²	
23°C	18	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			
--	147	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

