

# X-Pro PP 4212

Polypropylene Copolymer

CTC Plastics, LLC

## Message:

CTC Plastics manufactures resins up to 99% recycled making them a lower cost alternative to virgin resins, while maintaining comparable quality and process ability. Clients can purchase resins directly to meet specifications or request CTC Plastics to create a custom resin from either of our two facilities. Our resins are customized per batch depending on compound needs. Different formulas can enhance strength, durability or flexibility. With our onsite certified lab, we are able to personalize the compound to your exact needs. Recycled resins lower cost, meet your exact specifications and reduce dependency on foreign oil by over 10 million gallons per year.

Description: General purpose, medium flow, Polypropylene copolymer

Applications: General Purpose Industrial, Housewares Construction

Color: General Purpose Black

General Information			
Recycled Content	Yes		
Features	Copolymer		
	Medium liquidity		
	General		
Uses	Industrial application		
	Household goods		
	Architectural application field		
	General		
	Consumer goods application field		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 - 20	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13.8	MPa	ASTM D638, ISO 527-2
Flexural Modulus <sup>1</sup>	689	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ISO 180, ASTM D256
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	182 - 216	°C	
Middle Temperature	193 - 227	°C	
Front Temperature	204 - 216	°C	
Nozzle Temperature	204 - 216	°C	
Processing (Melt) Temp	204 - 216	°C	

Mold Temperature	26.7 - 60.0	°C
Injection Pressure	3.45 - 10.3	MPa
Clamp Tonnage	2.8 - 3.4	kN/cm <sup>2</sup>

#### Injection instructions

Screw Speed: Medium to Fast

#### NOTE

1. 1.3 mm/min

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#### Recommended distributors for this material

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