# Pinnacle PP 4211

### Polypropylene Impact Copolymer

#### **Pinnacle Polymers**

#### Message:

11 MELT FLOW HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 4211 is made via UNIPOL<sup>™</sup> PP technology, which utilizes gas-phase fluidized bed reactors with a high activity catalyst system to ensure uniform physical properties and lot-to-lot consistency.

This product is intended for injection molding of automotive, appliance, lawn and garden products, consumer and industrial applications. Provides an excellent base stock for compounding of filled and reinforced grades.

The 4211 product provides:

Wet/Dry environment resistance

Superior balance of stiffness and impact strength

Excellent color and processing stability

Enhanced weld-line strength

It is characterized by its easy mold flow and high impact at both room and sub ambient conditions.

Pinnacle's 4211 polypropylene is covered under US FDA Food Contact Notification 864. As such, this polymer can be used in contact with all food types under Conditions of Use A-H, as described in 21 CFR 176.170, Tables 1 and 2. This polymer also complies with 21 CFR 177.1520(c), items 3.1(a) and 3.2(a).

General Information		
Features	Food Contact Acceptable	
	Good Color Stability	
	Good Flow	
	Good Processing Stability	
	High Impact Resistance	
	Impact Copolymer	
	Low Temperature Impact Resistance	
	Weldable	
Uses	Appliances	
	Automotive Applications	
	Compounding	
	Consumer Applications	
	Industrial Applications	
	Lawn and Garden Equipment	
Agency Ratings	FDA 21 CFR 176.170 Table 1 & 2, Cond A-H	
	FDA 21 CFR 177.1520(c) 3.1a	
	FDA 21 CFR 177.1520(c) 3.2a	
Forms	Pellets	
Processing Method	Compounding	
	Injection Molding	
Physical	Nominal Value Unit	Test Method

0.900	g/cm³	ASTM D1505
11	g/10 min	ASTM D1238
1.3	%	ASTM D955
Nominal Value	Unit	Test Method
23.5	MPa	ASTM D638
7.0	%	ASTM D638
1040	MPa	ASTM D790A
Nominal Value	Unit	Test Method
> 530	J/m	ASTM D256
> 52.0	kJ/m²	ASTM D256
35.2	J	ASTM D5420
Nominal Value	Unit	Test Method
85.0	°C	ASTM D648
Type I, 51 mm/min		
Type I, 51 mm/min		
Type I, 1.3 mm/min		
Type I, 1.3 mm/min Type I		
	11   1.3   Nominal Value   23.5   7.0   1040   Nominal Value   > 530   > 52.0   35.2   Nominal Value   85.0   Type I, 51 mm/min	11 g/10 min   1.3 %   Nominal Value Unit   23.5 MPa   7.0 %   1040 MPa   Nominal Value Unit   > 530 J/m   > 52.0 kJ/m²   35.2 J   Nominal Value Unit   85.0 °C   Type I, 51 mm/min Type I, 51 mm/min

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