

# Pinnacle PP 5155C3

Polypropylene Random Copolymer

Pinnacle Polymers

## Message:

55 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 5155C3 is made via UNIPOL™ 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 applications that require high melt flow, fast cycle time, enhanced processability and excellent clarity. This product also has improved impact resistance and a new generation clarifier.

The 5155C3 product provides:

- New generation clarifier
- Improved color
- Excellent impact resistance
- High melt flow, excellent processability

General Information			
Additive	Clarifier		
Features	Fast Molding Cycle		
	Good Processability		
	High Clarity		
	High Flow		
	High Impact Resistance		
	Random Copolymer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	55	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.20 mm, Injection Molded)	26.9	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 3.20 mm, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (3.20 mm, Injection Molded)	1000	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	64	J/m	ASTM D256
Notched Izod Impact (Area) <sup>5</sup> (23°C, 3.20 mm, Injection Molded)	6.30	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.0	°C	ASTM D648
Optical	Nominal Value	Unit	
Haze (1270 μm)	9.0	%	
Yellowness Index	< -5.0	YI	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 1.3 mm/min		
4.	Type I		
5.	Type I		

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#### Recommended distributors for this material

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