

Product Description - Carbelene® CL75MB-2B

Carbelene CL75MB-2B is an impact modifier masterbatch developed specifically for use with clarified random copolymer polypropylene (PP). Carbelene CL75MB-2B readily incorporates directly into the base resin at the injection molding machine. When introduced as a masterbatch, incorporation rates as high as 25% can be achieved without impacting clarity or molding performance.

Typical physical and mechanical properties:

Physical Properties	Value	Test Method
Specific Gravity (gm/cm ³)	0.88	ASTM D792
Melt Mass-Flow Rate (230 °C/2.16 kg)	40 g/10 min	ASTM D1238

Mechanical Properties	Value	Test Method
Tensile Strength @ Yield	1,780 psi	ASTM D638
Flexural Modulus	61,050 psi	ASTM D790
Hardness (Shore A)	98	ASTM D785

Property Features

Natural colored pellets readily incorporates into base clarified PP resin without flow or mixing lines. Imparts excellent flexibility and toughness without blooming or affecting clarity. Particularly effective at improving low temperature impact properties as measured by Notched Izod and Gardener falling dart testing. Rates starting at 5% result in improved impact properties, with 10% to 15% typical in clarified storage totes and bins. For example 15% in a typical 55MFI clarified random copolymer polypropylene resulted in an 8X Gardener impact improvement at room temperature and a 5X improvement at 39°F.

General Injection Molding Processing Parameters

Processing Temperature across all zones	410 °F to 430 °F
Melt Temperature	400 °F to 440 °F
Mold Temperature	50 °F to 90 °F

Packaging

Available in 1,400 lb. gaylord boxes and 45,000 lb. bulk hopper trucks

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Carbelene CL Masterbatches are formulated specifically to disperse in your base clarified polypropylene resin.

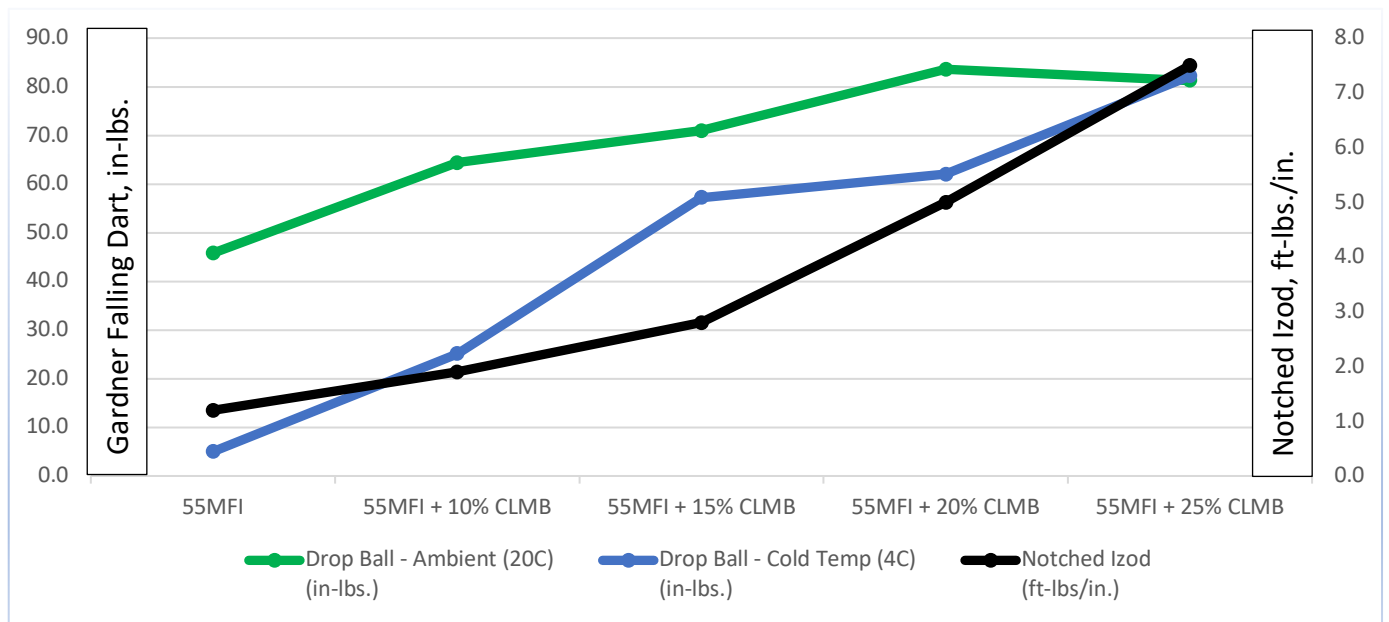
By matching viscosity and polymer chemistry, we optimize the blend of masterbatch and resin system. This gives the performance of a fully compounded product without the cost of a custom compound.

Benefits of masterbatch use in finished parts include:

- Easily used at different rates depending on part needs
- Improved clarity
- No concentration gradients or swirls
- Uniform improvement of impact resistance properties
- Reduced breakage in retailer shipments and customer use

Carbelene Effect on Impact Resistance

blended with 55MFI clarified polypropylene random copolymer resin



Carbelene at 15% Rate Improved 39° F Impact 10X vs. base 55MFI resin

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