



Auriga Polymers Inc.

Polyclear® Crystal MFRX Copolyester

Product Description

Polyclear® Crystal MFRX is a Copolyester resin with reduced crystallization (RX) for injection molding clear parts. Crystal MFRX has good flow (MF) for filling moderately thin wall parts, and excellent color and clarity for part transparency. Crystal MFRX also has outstanding chemical resistance and mechanical properties for cosmetic, health care, and appliance applications. Specific mechanical and thermal properties are provided in the Engineering Properties Data Sheet.

Polyclear® Crystal MFRX is fully recyclable in the PET stream with #1 designation, and complies with the Federal Food, Drug and Cosmetic Act for food contact. All compliance documents are available on request.

Polyclear® SLIP MB Copolymer masterbatch can be added to Polyclear® Crystal MFRX Copolyester to improve flow and mold release properties.

Property	Value	Test Method
Intrinsic Viscosity*	0.74 ± 0.02	1% Solution in Dichloroacetic Acid*
Melting Point (°C)	248 Maximum	DSC**
Density (g/ cm ³)	1.39 Minimum	Pycnometer
Color L*	84.5 Target	Hunter Colorimeter
Color b*	-1.70 Target	Hunter Colorimeter
Moisture Content (%)	0.1 Maximum	Karl Fisher Titration as manufactured
Crystallinity (%)	50 Minimum	Pycnometer
Bulk Density (packed) lb/ ft ³	52 Minimum	***
Chip Size (grams / 100 chips)	2.0 Maximum	

* Determined by conversion of solution viscosity to intrinsic viscosity using an empirical correlation developed by Auriga Polymers Inc. equivalent to ASTM method D-4603.

** Internal method

*** Not equivalent to bulk density found with fully packed, larger quantities.

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**Product Data Sheet
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