

TECHNICAL DATASHEET

M212S

Polypropylene Random Copolymer

Characteristics

M212S is a **Polypropylene Random Copolymer**; produced by latest generation **Spheripol II Technology**. This grade is suitable for manufacture of high clarity **Injection Molded & Injection Stretch Blow Molded (ISBM)** products.

M212S combines excellent **processability with high Flow, low Cycle Time, excellent Clarity, Gloss and Stiffness – Impact balance**.

M212S is suitable for Food Contact and Medical applications.

Applications

- **High Clarity Containers & other Household items**
- **Injection Syringe & High Clarity Medical / Laboratory products**
- **ISBM Bottles**

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg & 230 ⁰ C)	ASTM D 1238	g/10 min	12
Density at 23°C	ASTM D 1505	g/cm ³	0.90
Tensile Strength at Yield (50 mm/min)	ASTM D 638 (Type I - with Extensometer)	MPa	28
Tensile Elongation at Yield (50 mm/min)		%	14
Flexural Modulus	ASTM D 790A	MPa	1050
Notched Izod Impact Strength (23°C)	ASTM D 256A	J/m	70
Vicat Softening Point (10N)	ASTM D 1525	⁰ C	128
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	⁰ C	75

Typical Processing Temperature

Barrel Temperature	⁰ C	160 - 250
Mold Temperature	⁰ C	30 - 60

Mechanical properties are tested on Injection Molded Test Specimens prepared as per ASTM D 4101

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Compliance Certificates & MSDS are available on request.

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