



Provisional Technical Datasheet

CM12RE Polysure PP Impact Copolymer

Injection Molding

Product Characteristics:

Polysure CM12RE is a Polypropylene Impact Copolymer, produced by latest Spheripol – II Technology & primarily suitable for Injection Molding & Compounding processes. CM12RE is a no break grade with superior toughness & low temperature impact resistance.

Recommended Applications:

Luggage, Automotive Compounding, Appliances, Furniture, Industrial components

Typical Properties:

| Sr. No. | Property | Test Method | Unit | Value* |
|---------|--|----------------------------|----------|----------|
| 1 | Melt Flow Index (230°C & 2.16 kg) | ASTM D1238 | g/10 min | 12 |
| 2 | Tensile Strength at Yield, Type I Specimen | ASTM D638 (50 mm / min) | MPa | 21 |
| 3 | Tensile Elongation at Yield, Type I Specimen | | % | 7 |
| 4 | Flexural Modulus (1% Secant) | ASTM D790A | MPa | 950 |
| 5 | Notch Izod Impact Strength (23°C) | ASTM D256A | J/m | No Break |
| 6 | Notch Izod Impact Strength (- 20°C) | | J/m | 100 |
| 7 | Vicat Softening Point (10N) | ASTM D1525 | °C | 142 |
| 8 | Heat Deflection Temperature (0.455 MPa) | ASTM D648 | °C | 85 |

*All the mechanical properties are tested on Injection molded Test Specimen, prepared in accordance with ASTM D4101

Processing Guidelines:

- Barrel Temperature : 190 - 230°C
- Mold Temperature : 30 - 40°C

Storage & Handling:

Bags should be stored in dry & dust free environment at temperature below 50°C and Prevent from direct exposure to sunlight & heat to avoid quality deterioration.

Regulatory Requirements:

CM12RE to be manufactured complying the requirements specified in IS 10910 on "Specification for Polypropylene & its Copolymers for safe use in contact with Foodstuff, Pharmaceutical & Drinking water". Furthermore, the Additives added in this grade formulation compiles to the "Positive list of constituents for Polypropylene, Polyethylene and their Copolymers for its safe use in contact with Foodstuffs & Pharmaceuticals" as laid down under IS 16738:2018. In general, the additives & constituents used in the grade are in line with requirement laid down under FDA: CFR Title 21,177.1520, Olefin Polymers.

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