



Technical Datasheet

CM08NR Polysure PP Impact Copolymer

Injection Molding

Product Characteristics:

Polysure CM08NR is a Polypropylene Impact Copolymer, produced by latest Spheripol – II Technology & primarily suitable for Injection Molding process. This grade contains both nucleating & antistatic agents. CM08NR combines good stack ability, impact - stiffness balance & lower cycle time for reduced specific energy consumption to enhance sustainability.

Recommended Applications:

Paint pail, 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	8
2	Tensile Strength at Yield, Type I Specimen	ASTM D638 (50 mm / min)	MPa	25
3	Tensile Elongation at Yield, Type I Specimen		%	7
4	Flexural Modulus (2% Secant)	ASTM D790A	MPa	1200
5	Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	170
6	Vicat Softening Point (10 N)	ASTM D1525	°C	150
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	98

*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.

This grade meets the requirements of IS 10951:2020 - Specification for Polypropylene Material for Moulding and Extrusion.

Regulatory Requirements:

CM08NR 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.

Updated as of July 2025

Disclaimer: The information & data presented herein are typical values & should not be considered as specification and may be used as guideline only. HMEL does not undertake any responsibility for any outcome or results from the adoption or replication of the above-mentioned data & information there on for possible use for various applications. HMEL reserves the right to change the information & data without any prior notice or information. The user will solely be responsible for any process/product usage.

HPCL-Mittal Energy Limited (HMEL), The Rise, Plot No.17B & 17C, Block – FC, Sector-16A, Noida – 201301 (U.P), India. Tel: 0120-4634500. Corporate Site: www.hmel.in