

Technical Data Sheet

Moplen EP448S



Polypropylene, Impact Copolymer

Product Description

Moplen EP448S is a nucleated heterophasic copolymer with antistatic agent used injection moulding applications.

Moplen EP448S offers a good impact/stiffness balance with a medium fluidity combines with good organoleptic performance.

Moplen EP448S is typically used by customers in opaque containers, housewares, toys, furniture, pails and crates.

This grade is not intended for medical and pharmaceutical applications.

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|--------------------------|---|
| Application | Crates; Housewares; Opaque Containers; Pails; Sports, Leisure & Toys |
| Market | Consumer Products; Rigid Packaging |
| Processing Method | Injection Molding |
| Attribute | Contains Antistat; Good Organoleptic Properties; Impact Copolymer; Medium Flow; Nucleated |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 44 | g/10 min | ISO 1133-1 |
| Density | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Tensile Modulus | 1400 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 27 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 50 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 5 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 6 | kJ/m ² | ISO 179 |
| (0 °C, Type 1, Edgewise, Notch A) | 4 | kJ/m ² | ISO 179 |
| (-20 °C, Type 1, Edgewise, Notch A) | 3 | kJ/m ² | ISO 179 |
| Thermal | | | |
| Vicat Softening Temperature, (A50) | 150 | °C | ISO 306 |
| Deflection Temperature Under Load, (0.45 MPa, Unannealed) | 100 | °C | ISO 75B-1, -2 |