

Technical Data Sheet

Moplen EP448V



Polypropylene, Impact Copolymer

Product Description

Moplen EP448V is a nucleated heterophasic copolymer with antistatic agent used by customers for injection molding applications.

It exhibits an excellent balance of mechanical properties combined with a high fluidity.

Customers typically use *Moplen EP448V* in housewares and in thin-walled consumer containers.

This grade is not intended for medical and pharmaceutical applications.

| | |
|--------------------------|--|
| Application | Housewares; Opaque Containers; Sports, Leisure & Toys |
| Market | Consumer Products; Rigid Packaging |
| Processing Method | Injection Molding |
| Attribute | Contains Antistat; Good Processability; High Flow; High Stiffness; Impact Copolymer; Nucleated |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 100 | g/10 min | ISO 1133-1 |
| Density | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Tensile Modulus | 1500 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 27 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 10 | % | 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) | 4 | kJ/m ² | ISO 179 |
| (0 °C, Type 1, Edgewise, Notch A) | 2.5 | kJ/m ² | ISO 179 |
| (-20 °C, Type 1, Edgewise, Notch A) | 2 | 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 |