

Technical Data Sheet

Moplen EP348U



Polypropylene, Impact Copolymer

Product Description

Moplen EP348U is a nucleated, antistatic formulated, very high flow impact copolymer suitable for thin-walled injection molding applications.

Moplen EP348U combines an excellent processability with a very good impact strength at low temperature.

Moplen EP348U is typically used by customers for margarine tubs, packaging for dairy products, ice cream containers, lids, caps, housewares, toy boxes, flower pots and laundry baskets.

This grade is not intended for medical and pharmaceutical applications.

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|--------------------------|--|
| Application | Caps & Closures; Housewares; Opaque Containers |
| Market | Consumer Products; Rigid Packaging |
| Processing Method | Injection Molding |
| Attribute | Good Processability; High Impact Resistance; Medium Stiffness; Nucleated |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 70 | g/10 min | ISO 1133-1 |
| Density, (23 °C) | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Tensile Modulus | 1200 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 24 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 50 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 4 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 5.5 | 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) | 3.2 | kJ/m ² | ISO 179 |
| Ductile/Brittle Transition Temperature | -45 | °C | ISO 6603-2 |
| Hardness | | | |
| Ball Indentation Hardness, (H 358/30) | 50 | MPa | ISO 2039-1 |
| Thermal | | | |
| Vicat Softening Temperature | | | |
| (A/50) | 150 | °C | ISO 306 |
| (B50) | 65 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 92 | °C | ISO 75B-1, -2 |
| Optical | | | |
| Gloss, (60°) | 65 | % | ASTM D2457 |