

Technical Data Sheet

Moplen RP3455



Polypropylene, Random Copolymer

Product Description

Moplen RP3455 is a clarified random copolymer for injection moulding with antistatic additivation. *Moplen* RP3455 offers an outstanding combination of high flowability, transparency, gloss and organoleptic behaviours. *Moplen* RP3455 is typically used by customers in thin walled packaging for housewares and food packaging with high transparency and high requirement in organoleptic properties.

This grade is not intended for medical and pharmaceutical applications.

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|--------------------------|--|
| Status | Commercial: Active |
| Availability | Africa-Middle East; Europe |
| Application | Clear Containers; Housewares; Sports, Leisure & Toys |
| Market | Consumer Products; Rigid Packaging |
| Processing Method | Injection Molding |
| Attribute | Contains Antistat; Good Organoleptic Properties; High Flow; High Transparency; Nucleated; Random Copolymer |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 71 | g/10 min | ISO 1133-1 |
| Density, (23 °C) | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Tensile Modulus | 1030 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 30 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | >50 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 14 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 5.0 | kJ/m ² | ISO 179 |
| (0 °C, Type 1, Edgewise, Notch A) | 1.5 | kJ/m ² | ISO 179 |
| Thermal | | | |
| Vicat Softening Temperature, (A50) | 130 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 70 | °C | ISO 75B-1, -2 |
| Optical | | | |
| Haze, (1 mm - injection molded disc) | 11 | % | ASTM D1003 |

Notes

These are typical property values not to be construed as specification limits.