Technical Data Sheet

Moplen RP390T

Polypropylene, Random Copolymer

Product Description

Moplen RP390T is a nucleated random copolymer used for injection moulding. *Moplen* RP390T offers a very good flowability and an excellent transparency and organoleptic performance.
Moplen RP390T is typically used in the production of thin walled packaging with high transparency and high requirements for organoleptic properties. In multilayer barrier systems, processors have found that it provides good adhesion with the inner barrier layer, without impacting the overall transparency and processability.
Moplen RP390T has a superior aesthetic appearance and can be processed at significantly lower temperatures, enabling convertors to generate energy savings and improved productivity due to reduced cycle times.
Moplen RP390T is a development grade.

Regulatory Status

For regulatory compliance information, see *Moplen* RP390T Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

This grade is not intended for medical and pharmaceutical applications.

Status	Developmental: Restricted
Availability	Africa-Middle East; Europe
Application	Clear Containers; Housewares
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	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)	40	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	28	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	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	127	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	70	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	9	%	ASTM D1003