



Moplen RP2380

Polypropylene, Random Copolymer

Product Description

Moplen RP2380 is a random copolymer for injection moulding with nucleation and antistatic additivation.

Moplen RP2380 offers a very good flowability and an excellent transparency.

The main application of *Moplen* RP2380 is thin walled packaging with high transparency. *Moplen* RP2380 has a superior aesthetic appearance and can be processed at significantly lower temperatures. *Moplen* RP2380 enables energy savings and improved productivity due to reduced cycle times. *Moplen* RP2380 is a developmental grade

Product Characteristics

Status	Development
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Method	Injection Molding
Typical Customer Applications	Sports, Leisure and Toys, Housewares, Clear Containers

Typical Properties	Method	Value Unit
Physical		
Density	ISO 1183	0.905 g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	48 g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	65 cm ³ /10min
Mechanical		
Tensile Modulus	ISO 527-1, -2	1100 MPa
Tensile Stress at Yield	ISO 527-1, -2	29 MPa
Tensile Strain at Break	ISO 527-1, -2	> 50 %
Tensile Strain at Yield	ISO 527-1, -2	11 %
Impact		
Charpy unnotched impact strength	ISO 179	
(23 °C, Type 1, Edgewise)		180 kJ/m ²
(0 °C, Type 1, Edgewise)		60 kJ/m ²
Charpy notched impact strength	ISO 179	
(23 °C, Type 1, Edgewise, Notch A)		4.5 kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		2.5 kJ/m ²
Hardness		
Ball indentation hardness (H 358/30)	ISO 2039-1	58 MPa
Thermal		
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	70 °C
Vicat softening temperature	ISO 306	
(B50 (50°C/h 50N))		72 °C
(A50 (50°C/h 10N))		130 °C

Optical

Haze (1 mm)

ASTM D 1003

9 %

Notes

Typical properties; not to be construed as specifications.

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Users should review the applicable Material Safety Data Sheet before handling the product.

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