



Moplen RP2380

Polypropylene, Random Copolymer

Product Description

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

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

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	%