



Moplen RP390H

Polypropylene, Random Copolymer

Product Description

Moplen RP390H is a random copolymer with nucleation for extrusion applications. The grade exhibits excellent clarity, gloss and rigidity. The main applications of Moplen RP390H are extrusion blow moulding, sheet extrusion and thermoforming.

Moplen RP390H is suitable for food contact.

Moplen RP390H is not intended for use in medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe
Processing Methods	Extrusion Blow Molding, Extrusion Pipe Sheet and Semi Finished Products, Extrusion Thermoforming
Features	High Clarity, Random Copolymer, High Gloss , Nucleated, Medium Rigidity
Typical Customer Applications	Blow Moulding - other, Blow Moulding Applications, Bottles For Consumer Goods, Bottles for Industrial Use

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	1.8	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	2.40	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1100	MPa
Tensile Stress at Yield	ISO 527-1, -2	29.0	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	13	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		26	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	56.0	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	80.0	°C
Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		72.0	°C
(A50 (50°C/h 10N))		130	°C

Additional Properties

Haze (injection moulded 1mm disk, without tool coating), ASTM D1003: 11 %

Notes

Typical properties; not to be construed as specifications.