



Moplen EP310DC

Polypropylene, Impact Copolymer

Product Description

Moplen EP310DC is a low fluidity heterophasic copolymer designed for extrusion applications where smooth processability and high mechanical properties are of the utmost importance. Main applications are extrusion of film for heavy duty applications, adhesive tapes, lamination film and extrusion blow moulded containers for e.g. detergents.

Moplen EP310DC is suitable for food contact.

For regulatory information please refer to Moplen EP310DC Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, Africa-Middle East
Processing Methods	Blown Film, Extrusion Blow Molding
Features	Impact Copolymer, Low Flow , Good Processability
Typical Customer Applications	Blow Moulding Applications, Containers, Film, Food Packaging Film, Lamination Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	0.8	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1200	MPa
Tensile Stress at Yield	ISO 527-1, -2	27.0	MPa
Tensile Strain at Break	ISO 527-1, -2	420	%
Tensile Strain at Yield	ISO 527-1, -2	11	%
Impact			
Charpy notched impact strength	ISO 179		
(-20 °C, Type 1, Edgewise, Notch A)		4.2	kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		24	kJ/m ²
(23 °C, Type 1, Edgewise, Notch A)		79	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	62	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	72.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	150	°C

Additional Properties

Typical Film Properties:

Gloss, ASTM D 2457, 60 µm, 12 units

Haze, ASTM D 1003, 60 µm, 60%

Tensile Young Modulus, ASTM D 882, 25 mm/min, 60 µm: 1200 MPa

Stress at Yield, ASTM D 882, 500 mm/min, 60 µm, 27 MPa

Elongation at Yield, ASTM D 882, 500 mm/min, 60 µm, 7%

Stress at Break, ASTM D 882, 500 mm/min, 60 µm, 49 MPa

Elongation at Break, ASTM D 882, 500 mm/min, 60 µm, 830%

Notes

Typical properties; not to be construed as specifications.