



Moplen EP310D

Polypropylene, Impact Copolymer

Product Description

Moplen EP310D 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 EP310D is suitable for food contact.

For regulatory information please refer to Moplen EP310D 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	0.95	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	30	MPa
Tensile Stress at Yield	ISO 527-1, -2	26.0	MPa
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	13	%
Flexural modulus	ISO 178	1050	MPa
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		70	kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		6	kJ/m ²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	80	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	150	°C

Additional Properties

Film properties obtained on cast film produced with laboratory line under internal standard conditions.

Typical Film Properties:

Gloss, ASTM D 2457, 50 µm, 21 units

Haze, ASTM D 1003, 50 µm, 38%

Stress at Break, ASTM D 882, 500 mm/min, 50 µm, MD/TD, 55-45 MPa

Elongation at Break, ASTM D 882, 500 mm/min, 50 µm, MD/TD, 1000%-1100%

Dart Impact strength, >1450 g.

Notes

Typical properties; not to be construed as specifications.