

Moplen EP310DC

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

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).

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Impact Copolymer		
	Low Flow		
Uses	Blow Molding Applications		
	Containers		
	Film		
	Food Packaging		
	Laminates		
	Tape		
Processing Method	Blown Film		
	Extrusion		
	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2
Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	11	%	
Break	420	%	
Films	Nominal Value	Unit	Test Method
Secant Modulus - MD ¹ (60 µm)	1200	MPa	ASTM D882
Tensile Strength - MD ²			ASTM D882

Yield,60 μm	27.0	MPa	
Break, 60 μm	49.0	MPa	
Tensile Elongation - MD ³			ASTM D882
Yield, 60 μm	7.0	%	
Break, 60 μm	830	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.2	kJ/m ²	
0°C	24	kJ/m ²	
23°C	79	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	72.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss (60.0 μm)	12		ASTM D2457
Haze (60.0 μm)	60	%	ASTM D1003
NOTE			
1.	25 mm/min		
2.	500 mm/min		
3.	500 mm/min		

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