Moplen EP310D

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

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).

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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.95	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
Yield	26.0	MPa	ISO 527-2/50
Break	30.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2/50
Yield	13	%	
Break	> 500	%	
Flexural Modulus	1050	MPa	ISO 178
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus - MD (50 µm, Cast Film)	500	MPa	ASTM D882
Tensile Strength - MD [1]			ASTM D882

Yield,50 µm, Cast Film	16.0	MPa	
Break, 50 µm,Cast Film	63.0	MPa	
Tensile Elongation - MD [2] (Break, 50 µm,Cast Film)	830	%	ASTM D882
Dart Drop Impact (Cast Film)	> 1500	g	ASTM D1709
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m^2	
23°C	70	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A50
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (50.0 µm, Cast Film)	17		ASTM D2457
Haze (50.0 µm, Cast Film)	48	%	ASTM D1003
NOTE			
1.	500 mm/min		
2.	500 mm/min		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China