Moplen EP310D

Polypropylene Impact Copolymer

LyondellBasell Industries



Technical Data

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).

General				
Material Status	Commercial: Active			
Literature ¹	 Processing - Extrusion (English) Processing - Injection Molding (English) Processing - Mold Shrink (English) Technical Datasheet - ASTM (English) Technical Datasheet - ISO (English) 	h) glish)		
Search for UL Yellow Card	LyondellBasell IndustriesMoplen			
Availability	Africa & Middle East	Europe		
Features		Impact Copolymer Low Flow		
Uses		Film Food Packaging	LaminTape	ates
Processing Method	Blown Film	Extrusion	• Extrus	sion Blow Molding
Physical	Nominal Value (English	n) Nomin	al Value (SI)	Test Method
Density	0.900 g/cm ³	,	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16		n	0.95 g/10 min	ISO 1133
Mechanical	Nominal Value (English		al Value (SI)	Test Method
Tensile Stress	(0	,		
Yield	3770 psi		26.0 MPa	ISO 527-2/50
Break	4350 psi		30.0 MPa	ISO 527-2
Tensile Strain				ISO 527-2/50
Yield	13 %		13 %	
Break	> 500 %		> 500 %	
Flexural Modulus	152000 psi		1050 MPa	ISO 178
ilms	Nominal Value (English	n) Nomin	al Value (SI)	Test Method
Secant Modulus - MD (2.0 mil (50 µm), Cast Film)	72500 psi		500 MPa	ASTM D882
Tensile Strength - MD ³				ASTM D882
Yield, 2.0 mil (50 μm), Cast Film	2320 psi		16.0 MPa	
Break, 2.0 mil (50 µm), Cast Film	9140 psi		63.0 MPa	
Tensile Elongation - MD ³	·			ASTM D882
Break, 2.0 mil (50 µm), Cast Film	830 %		830 %	
Dart Drop Impact (Cast Film)	> 1500 q		> 1500 g	ASTM D1709
mpact	Nominal Value (English	n) Nomin	al Value (SI)	Test Method
Charpy Notched Impact Strength		,	()	ISO 179/1eA
-4°F (-20°C)	2.9 ft·lb/in²		6.0 kJ/m ²	
73°F (23°C)	33 ft·lb/in²		70 kJ/m²	
[hermal	Nominal Value (English	n) Nomin	al Value (SI)	Test Method
Heat Deflection Temperature	, 3		· /	ISO 75-2/B
66 psi (0.45 MPa), Unannealed	176 °F		80.0°C	
Vicat Softening Temperature	302 °F		150 °C	ISO 306/A50
Optical	Nominal Value (English	n) Nomin	al Value (SI)	Test Method
01 (4.05 11.750.0) 0 (.511.)			<u>`</u> ` /	107110017



Form No. TDS-54560-en

ASTM D2457

17

Gloss (1.97 mil (50.0 µm), Cast Film)

17

Moplen EP310D

Polypropylene Impact Copolymer LyondellBasell Industries



www.ulprospector.com

Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (1.97 mil (50.0 μm), Cast Film)	48 %	48 %	ASTM D1003

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² Typical properties: these are not to be construed as specifications.
- ³ 20 in/min (500 mm/min)



Form No. TDS-54560-en

LyondellBasell Industries



Where to Buy

Supplier

LyondellBasell Industries Wilmington, DE USA Telephone: 713-309-7200

Web: http://polymers.lyondellbasell.com/portal/site/basell/

Distributor

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country. Telephone: +32-11-57-95-57

Web: http://www.ultrapolymers.com/

Availability: Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United



Form No. TDS-54560-en