Clearflex® CL 508

Linear Medium Density Polyethylene

Versalis S.p.A.

Message:

Clearflex CL 508 is an octene copolymer linear medium density polyethylene (C8-LMDPE), with antioxidants, suitable for cast film extrusion.
Films manufactured with Clearflex CL 508 exhibit a good balance between rigidity and stretchability.
Main Application
Clearflex CL 508 is recommended for the production of film characterized by optimum mechanical resistance and high rigidity (hygienic film). Its high Vicat softening point makes Clearflex CL 508 the ideal choice for the production of films for food which are submitted to pasteurisation or sterilisation process. Moreover, Clearflex CL 508 can be used, for its slip-cling properties, as external layer in coextrusion structures.

General Information	
Additive	Antioxidant
Features	Antioxidant Copolymer Food Contact Acceptable Good Stretchability High Rigidity Medium Density Octene Comonomer
Uses	Cast Film Film Food Packaging
Agency Ratings	EU Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Cast Film Coextrusion

Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.7	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Dynamic, Cast Film)	> 0.50		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	23	µm	
Film Thickness - Recommended / Available	8 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 23 µm, Cast Film	300	MPa	

1% Secant, TD : 23 µm, Cast Film	330	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 23 µm, Cast Film	16.0	MPa	
TD : Yield, 23 µm, Cast Film	17.0	MPa	
MD : Break, 23 µm, Cast Film	35.0	MPa	
TD : Break, 23 µm, Cast Film	30.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 23 µm, Cast Film	660	%	
TD : Break, 23 µm, Cast Film	800	%	
Dart Drop Impact [1] (23 µm, Cast Film)	40	g	ISO 7765-1
Elmendorf Tear Strength [2]			ISO 6383-2
MD : 23.0 µm	20.0	kN/m	
TD : 23.0 µm	80.0	kN/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	118	°C	ISO 306/A
Melting Temperature	128	°C	Internal Method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 23.0 µm, Cast Film)	84		ASTM D2457
Haze (23.0 µm, Cast Film)	3.5	%	ISO 14782
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	220 to 270	°C	
NOTE			
1.	F50		
2.	Cast Film		

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