

LITEN FL 20

Medium Density Polyethylene

UNIPETROL RPA

Message:

LITEN FL 20 is a copolymer with medium density, broad molecular weight distribution and UV stabilization. It can be used for manufacture of fine packaging films of recommended minimal thickness of 10 µm. Its stabilization system provides a lifetime of 2 years (central European climate) for 120 µm film. The grade enables manufacture of soft films even at thicknesses of (30 - 50) µm.

LITEN FL 20 is also suitable for modification of PE-LD film grades; the modified films exhibit improved mechanical properties at lower thickness. The recommended FL 20 content in PE-LD film is (10 - 30) %.

Liten FL 20 meets the hygienic requirements on materials and articles intended for contact with foodstuffs according to Regulation (EC) 1935/2004 of the European Parliament and of the Council, as well as according to Commission Regulation (EU) No 10/2011 including changes and additions.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Food Contact Acceptable		
	Med.-Wide Molecular Weight Distrib.		
Uses	Film		
	Packaging		
	Plastics Modification		
Agency Ratings	EC 1935/2004		
	EU 10/2011		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.20	g/10 min	
190°C/21.6 kg	20	g/10 min	
190°C/5.0 kg	1.0	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 100% Detergent, F50)	350	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	56		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	17.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Flexural Modulus	600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.0	kJ/m ²	

23°C	14	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	114	°C	ISO 306

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