

LITEN RL 58

Polyethylene Copolymer

UNIPETROL RPA

Message:

LITEN RL 58 is a linear polyethylene, copolymer with narrow molecular weight distribution, intended for injection moulding. Typical application is manufacture of technical parts and screw caps for packaging of sparkling water and soft drinks. The products exhibit high impact strength and an ESC resistance.

LITEN RL 58 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			
Features	Copolymer		
	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Engineering Parts		
Agency Ratings	EC 1935/2004		
	EU 10/2011		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	3.0	g/10 min	
190°C/5.0 kg	11	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 100% Detergent, F50)	20.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	57		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	20.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Flexural Modulus	800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.5	kJ/m ²	
23°C	15	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ISO 306

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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

