Technical Data Sheet

CirculenRenew C14 LD1800S



Low Density Polyethylene

Product Description

CirculenRenew C14 LD1800 S is part of the Circulen© product family of circular and sustainable solutions. CirculenRenew C14 polymer reduces the carbon footprint as it replaces fossil feedstock through using renewable raw materials made from bio-based waste and residue oils. The renewable content of CirculenRenew C14 is measured by an accredited third party laboratory and stated as a parameter on the Certificate of Analysis (CoA).

CirculenRenew C14 LD1800 S is a drop-in solution and therefore doesn't require any adaptation of the existing processing equipment.

CirculenRenew C14 LD1800 S is a low density polyethylene resin used in injection molding and other processing methods like compounding. It exhibits high flowability, good softness, toughness and dimensional stability. CirculenRenew C14 LD1800 S is delivered in pellet form and is not additivated.

CirculenRenew C14 LD1800 S is used in applications such as toys, caps & closures, engineering parts, and sports and leisure equipment.

Circulen Renew C14 LD1800 S is not intended for use in medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

ApplicationCaps & Closures; Sports, Leisure & ToysMarketConsumer Products; Rigid Packaging

Processing Method Injection Molding

Attribute Fast Cycle (Production); Good Flexibility; Good Processability; Low Density; Low

Temperature Impact Resistance

Nominal		
Value	Units	Test Method
20	g/10 min	ISO 1133-1
0.917	g/cm³	ISO 1183-1
160	MPa	ISO 527-1, -2
8	MPa	ISO 527-1, -2
1.5	hr	ASTM D1693
45		ISO 868
13	MPa	ISO 2039-1
	20 0.917 160 8 1.5	20 g/10 min 0.917 g/cm³ 160 MPa 8 MPa 1.5 hr





Vicat Softening Temperature, (A/50 N)	81	°C	ISO 306
Peak Melting Point	106	°C	ISO 11357-3
Processing Parameters			
Melt Temperature	180 - 230	°C	

Notes

These are typical property values not to be construed as specification limits.



