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Technical Data Sheet

Circulen 2420F Plus

Low Density Polyethylene



Product Description

Circulen 2420 F Plus is a circular polymer, which contains building blocks from non-mechanical recycling processes converting renewables and organic wastes into new cracker feedstock.

The bio content of recycled cracker feedstock is measured and certified on the Certificate of Analysis.

Circulen 2420 F Plus is a non-additivated, low density polyethylene. It is characterized by a good melt strength leading to a good bubble stability during blown film extrusion. It is delivered in pellet form.

This product is not intended for use in medical and pharmaceutical applications.

Regulatory Status

For regulatory compliance information, see *Circulen* 2420F Plus <u>Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)</u>.

Status Commercial: Active

Availability Africa-Middle East; Asia-Pacific; Europe

Application Agriculture Film; Bags & Pouches; Food Packaging Film; Hygiene Film; Liner Film;

Shrink Film

Market Flexible Packaging

Processing Method Blown Film

Attribute General Purpose; Good Heat Seal; Good Melt Strength; Good Optical Properties;

Good Processability

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.75	g/10 min	ISO 1133-1
Density	0.923	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	260	MPa	ISO 527-1, -2
Tensile Stress at Yield	11	MPa	ISO 527-1, -2
Film			
Dart Drop Impact Strength, F50	150	g	ASTM D1709
Tensile Strength			
MD	26	MPa	ISO 527-1, -3
TD	24	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	300	%	ISO 527-1, -3
TD	600	%	ISO 527-1, -3
Coefficient of Friction	>0.8		ISO 8295
Impact			
Failure Energy	5.5	J/mm	DIN 53373
Thermal			
Vicat Softening Temperature, (A/50 N)	96	°C	ISO 306

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Peak Melting Point	111	°C	ISO 3146
Optical			
Haze, (50 μm)	<8	%	ASTM D1003
Gloss			
(20°)	>40		ASTM D2457
(60°)	>90		ASTM D2457
Additional Information			
Test Specimen	Film		
Film properties tested using 50 µm thickness	s blown film extruded at a melt temp	perature of 180°	°C and a blow-up ratio of 2.5:1.
Processing Parameters			
Extrusion Temperature	170-220	°C	

Notes

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