

Stamylex® 5119 S

Medium Density Polyethylene

Borealis AG

Message:

Stamylex® 5119 S is a medium density linear polyethylene produced in a solution polymerisation process using a Ziegler - Natta catalyst. This grade contains an additive package for thermal stabilization and a processing aid.

Features:

- good flow properties
- mechanical properties
- narrow additive tolerances

Stamylex 5119 S is suited for use in caps of non-carbonated mineral water bottles, afforded by good closing properties, unscrewing torque and organoleptic properties.

The material is designed for trouble-free operation on fast bottle filling lines.

General Information			
Additive	Heat Stabilizer		
	Processing Aid		
Features	Good Flow		
	Good Organoleptic Properties		
	Medium Density		
Uses	Bottles		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.944	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	57		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	700	MPa	ISO 527-2
Tensile Stress (Break)	12.0	MPa	ISO 527-2/500
Tensile Strain (Break)	40	%	ISO 527-2/500
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	3.7	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	115	°C	ISO 306/A
Melting Temperature	125	°C	ASTM D3418

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