

TOTAL Polyethylene Lumicene® M 5220

High Density Polyethylene
TOTAL Refining & Chemicals

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Technical Data

Product Description

Lumicene® mPE M5220 is a High Density Polyethylene with outstanding organoleptic properties, stress-cracking and process-ability.

Lumicene® mPE M5220 is especially suited for the production of packaging of sterilized milk by extrusion blow moulding or the production of beverage caps & closures by injection or compression moulding.

This grade does not contain a slip agent.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English) • Technical Datasheet (English)
Search for UL Yellow Card	• TOTAL Refining & Chemicals
Availability	• Europe
Features	• Good Organoleptic Properties • Good Processability • High ESCR (Stress Crack Resist.)
Uses	• Caps • Food Packaging • Closures • Packaging
Agency Ratings	• EC 1907/2006 (REACH)
Processing Method	• Compression Molding • Extrusion Blow Molding • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.952 g/cm ³	0.952 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	145000 psi	1000 MPa	ISO 527-2
Tensile Stress (Yield)	3630 psi	25.0 MPa	ISO 527-2

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Unnotched Impact Strength 73°F (23°C)	4.8 ft·lb/in ²	10 kJ/m ²	ISO 179

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature	268 °F	131 °C	ISO 11357-3

Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	< 482 °F	< 250 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

TOTAL Refining & Chemicals

Houston, TX USA

Telephone: 713-483-5000

Web: <http://www.totalrefiningchemicals.com/>

Distributor

Nexeo Solutions - Europe

Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.

Telephone: +34-93-480-9125

Web: <http://www.nexeosolutions.com/>

Availability: Belgium, Czech Republic, Denmark, Finland, Ireland, Luxembourg, Netherlands, Norway, Sweden, United Kingdom

Plastribution

Telephone: +44-845-345-4560

Web: <http://www.plastribution.co.uk/>

Availability: United Kingdom

