

Lumicene® M5220M

High Density Polyethylene
TOTAL PETROCHEMICALS

Technical Data

Product Description

Lumicene® M5220M is a second generation metallocene high density polyethylene with very good organoleptic properties, dimensional stability, stress-cracking resistance, rigidity and processability.

It is especially suited for the production of beverage caps & closures by injection or compression moulding, more specifically for carbonated drinks. Other typical applications include caps & closures for cosmetics and general purpose injection-moulded articles.

This grade contains a slip agent.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• TOTAL PETROCHEMICALS		
Availability	• Asia Pacific	• Europe	
Additive	• Slip		
Features	• Good Dimensional Stability • Good Organoleptic Properties	• Good Processability • Good Stiffness	• High ESCR (Stress Crack Resist.) • Slip
Uses	• Caps	• Closures	• General Purpose
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value Unit	Test Method
Density	0.952 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1000 MPa	ISO 527-2
Tensile Stress (Yield)	25.0 MPa	ISO 527-2

Thermal	Nominal Value Unit	Test Method
Melting Temperature	131 °C	ISO 11357-3

Injection	Nominal Value Unit
Processing (Melt) Temp	< 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.