

# Lumicene® mPE M 3509

Medium Density Polyethylene  
**TOTAL PETROCHEMICALS**

## Technical Data

### Product Description

Lumicene® mPE M 3509 is a metallocene-based medium density polyethylene (MDPE) combining the features of conventional blow molding polyethylene with differentiated optical properties such as gloss and contact clarity.

In combination with HDPE BM593 (physical blend), mPE M 3509 combines all the current requirements for the manufacture of blow molded packaging in the cosmetics and household liquids markets.

Lumicene® mPE M3509 is a pellet grade and contains antioxidants.

### General

Additive	• Antioxidant		
Features	• Antioxidant	• Contact Clarity	• High Gloss
Uses	• Blow Molding Applications • Cosmetic Packaging	• Household Goods • Packaging	
Agency Ratings	• EC 1907/2006 (REACH)		
Forms	• Pellets		
Processing Method	• Blow Molding		

Physical	Nominal Value Unit	Test Method
Density	0.935 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance 100% Antarox, F50	> 1000 hr	ASTM D1693B

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	80 kJ/m²	ISO 179

### Additional Information

Lumicene® mPE M 3509 is best processed between 160 and 200°C in mono layer applications and at temperature between 180 and 220°C in coextrusion with HDPE BM 593.