

**TECHNICAL DATA SHEET**

# LUMICENE® mPE M 5220

TotalEnergies

**Processing**

Injection molding, Blow molding, Compression molding

**Certifications**

Food contact

**Chemical Resistance**

Environmental stress crack resistance

**Applications**

Packaging

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	2	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	1000	MPa	ISO 527
Yield stress	25	MPa	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	131	°C	ISO 11357-1/-3
Other Properties	Value	Unit	Standard
Density	952	kg/m <sup>3</sup>	ISO 1183
Processing Recommendation Injection Molding	Value	Unit	Standard
Melt temperature	≤250	°C	
Processing Recommendation Extrusion	Value	Unit	Standard
Melt temperature	180	°C	