

Technical Data Sheet Metallocene Medium Density High Gloss Blow Molding Resin

Produced in the United States

Description

Polyethylene Lumicene® mPE BM359 SG: Outstanding gloss; good flexibility; excellent impact strength; good ESCR; USP Class VI compliant; FDA Compliant(1)

Applications: Lumicene® mPE BM359 SG is recommended for coextruded glossy bottles, monolayer squeezable bottles and injection blow molded containers.

Characteristics

	Method	Unit	Typical Value
Rheological Properties ⁽¹⁾			
Melt Flow Index	D-1238	g/10 min	
190°C/2.16 kg			0.9
190°C/21.6 kg (HLMI)			25
Mechanical Properties ⁽²⁾⁽³⁾			
60° Gloss	TOTAL Method		40 to 80
Tensile Strength at Yield	D-638	psi	4000
Elongation at Break	D-638	%	> 600
Flexural Modulus	D-790	psi	107000
Izod Impact @ 23°C	D-256	ft-lb/in	10.5
ESCR ⁽⁴⁾ , F ₅₀	D-1693, Cond B		
	100% Igepal	hrs	> 1000
	10% Igepal	hrs	> 1000
Thermal Properties ⁽²⁾	<u> </u>		
Melting Point	D-3417	°F	255
Other Physical Properties			
Density	D-792	g/cc	0.935

- (1) Complies with FDA 21 CFR § 177.1520, Para. © 2.1 and 2.2
- (2) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
- (3) The data listed were determined on compression molded specimens and may, therefore, vary from specimens taken from molded articles (4) Environmental Stress Crack Resistance

Lumicene® mPE BM359 SG 01/2014



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