

Lumicene® mPE M4041UV

Metallocene Medium Density Polyethylene Rotational Molding Resin - Pellet Form

ROTATIONAL MOLDING

RESIN PROPERTIES (1)

	Method	Unit	Typical Value
Melt Flow Index	D1238	g/10 min	-
190°C/2.16 kg	-	-	4
Density	D792	g/cm³	0.939
Melting Temperature	D3418	°F	259

MECHANICAL PROPERTIES (1)

	Method	Unit	Typical Value
Tensile Modulus	D638	psi	117,000
Tensile Strength at Yield	D638	psi	3,000
Tensile Strength at Break	D638	psi	1,700
Elongation at Yield	D638	%	8
Elongation at Break	D638	%	300
Flexural Modulus (1% Secant)	D790	psi	128,000
Vicat Softening Temperature	D1525	°F	247
ESCR ⁽²⁾	D1693	hrs	_
10% Igepal	_		155
100% Igepal	-		> 900
UV Rating (G155, cycle1)	-		20
ARM Impact at -40°C (0.125" / 0.250")	-	ft-lbs	77 / 180

- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
- (2) Environmental Stress Crack Resistance (ESCR).

CHARACTERISTICS:

- Second generation metallocene
- Superior mechanical properties
- Outstanding optical properties (gloss)
- Improved dimensional stability
- Easy processing

APPLICATIONS:

- Rotational-molded items
- NSF standard 61

All tests were run under laboratory conditions using American Society for Testing and Materials standards (where applicable) or internal testing procedures. The data is offered in good faith but is intended as a general guide only, and does not necessarily represent results that may be obtained elsewhere. The use of Bayport Polymers LLC ("Bayptar") products must be guided solely by the user's own methods for selection of proper formulation to ascertain fitness for any specific application. Bayport and is a proposed product of the product. The data is provided without reference to any intellectual property issues, as well as federal, state, or local laws which may be encountered in the use thereof. BAYSTAR MARES NO WARRANTY TOH MARED SEN OWN ARRANTY TOH TEST ES NO WARRANTY TOH TEST ES NO

