

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	-	_	4.0
Density	D792	g/cm³	0.939
Melting Temperature	D3418	°F	259

MECHANICAL PROPERTIES⁽¹⁾

	Method	Unit	Typical Value
Tensile Strength at Yield	D638	psi	3,000
Elongation at Yield	D638	%	8
Elongation at Break	D638	%	300
1% Secant Modulus	D638	psi	117,000
1% Flexural Modulus	D790	psi	128,000
Vicat Softening Temperature	D1525	°F	247
ESCR ⁽²⁾	D1693, B	hr	_
10% Igepal [®] , F50	-	-	155
100% Igepal [®] , F50	-	-	> 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).

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 disenders. The use of Bayport Polymers LLC ("Baytsta") products must be guided solely by the user's own method for selection of proget formulation to as extain fitness for any specific applicable. By children and the user of the products must by be product. 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 disenders. The use of Bayport Polymers LLC ("Baytsta") products must by be guided solely by the user's own method for selection of proget formation contained in the data or the use of the product. The data is provided without reference to any intellectual property issues, as well as a faderal, state, or isoal as which may be encountered in the use thereof. BMYSTAR MAKES NO WARRANT TOF MARE TRUNCAR PMERTICULAR PMERTICULAR PMERTIC MARE PMERTICULAR PME

CHARACTERISTICS:

- Second generation metallocene
- Superior mechanical properties
- Outstanding optical properties (gloss)
- Improved dimensional stability
- · Easy processing
- UV-20 rating for outdoor durability

APPLICATIONS:

- Rotational-molded items
- Chemical containers and IBCs
- Agricultural storage tanks
- Water tanks
- NSF / ANSI standard 61
- UL 94 HB

