

# Lumicene® mPE 3581UV

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	-	-	6.0
Density	D792	g/cm³	0.935
Melting Temperature	D3418	°F	252

## MECHANICAL PROPERTIES (1)

	Method	Unit	Typical Value
Tensile Strength at Yield	D638	psi	2,600
Elongation at Yield	D638	%	8
Elongation at Break	D638	%	340
1% Secant Modulus	D638	psi	93,000
1% Flexural Modulus	D790	psi	100,000
Vicat Softening Temperature	D1525	°F	239
ESCR <sup>(2)</sup>	D1693, B	hr	-
10% Igepal®, F50	-	-	300
100% Igepal®, F50	-	-	>1,000
UV Rating (G155, cycle 1)	-	-	20
ARM Impact at -40°C	-	ft-lbs	71 / 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 elsewhere. The use of Bayport Polymers LLC ("Baytar") products must be guided solely by the user's own methods for selection of proper formulation to ascertain fitness for any specific application. Baytar disclaims any responsibility for misuse or misapplication of its products and the user expressly assumes all risk and lability, whether based in contract, to or or therwise, in connection with the use of the information contained in the data or the user of the product. The data is provided without reference to any intellectual properly issues, as well as federal, state, or local times which may be use thereof. BNTS TARRIANT TO a contained in the data or the user of the product. The data is provided without reference to any intellectual properly issues, as well as federal, state, or local times which may be use thereof. BNTS TARRIANT TO a contained in the data or the user of the product. The data or the user of these products in the contained in the user the product is the standard times the product in the contained in t

#### **CHARACTERISTICS:**

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

#### **APPLICATIONS:**

- Rotational-molded items
- Toys and carts
- · Home and garden
- Recreational and agricultural equipment
- NSF / ANSI standards 51 & 61
- UL 94 HB



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