



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/cm ³	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

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