Lumicene® mPE M3581 UV

Technical Data Sheet | Metallocene Polyethylene Rotational Molding Resin – Pellet Form

	Method	Unit	Typical Value
Resin Properties (1)			
Melt Flow Index	D-1238	g/10 min	
190°C/2.16 kg			6
Density	D-792	g/cm^3	0.935
Melting Point	D-3417	°C / °F	122 / 252
Vicat Softening Point	D-1525	°C / °F	115 / 239
Mechanical Properties (1)			
Tensile Modulus	D-638	kpsi	93
Tensile Strength @ Yield	D-638	psi	2,600
Tensile Strength @ Break	D-638	psi	1,700
Elongation @ Yield	D-638	%	8
Elongation @ Break	D-638	%	340
Flexural Modulus (1% Secant)	D-790	kpsi	100
ESCR(2)	D-1693		
10% Igepal		hrs	300
100% Igepal		Hrs	> 1,000
UV Rating			16
ARM Low Temperature Impact (0.250")		ft-lbs	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

Processing

Recommended PIAT range of 210 – 222 ºC. (Maximum recommended PIAT 222 °C.)
Molding at higher PIAT is recommended for enhanced physical properties and part to part consistency.

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