Find us at

www.total.com

The Refining & Chemicals Division of Total, one of the largest integrated oil and gas companies in the world, encompasses the refining and petrochemicals activities, and also the specialty chemicals, with more than 50,000 employees worldwide. The Refining & Chemicals Division is not only the first refiner and the first petrochemicals producer in Europe but includes 13 refineries, 21 petrochemicals production sites and more than 150 locations in specialty chemicals and fertilizers worldwide. The Refinery & Chemicals Division produces and commercializes a wide range of product from petroleum products to commodity polymers including base chemicals intermediates. Those products are used in many consumer and industrial markets.

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11/2012 - Design and production: The Crew

POLYETHYLENE

ROTATIONAL MOULDING

REFINING & CHEMICALS

YOU HAVE A CHALLENGE IN ROTATIONAL MOULDING? THINK FIRST TOTAL LUMICENE®

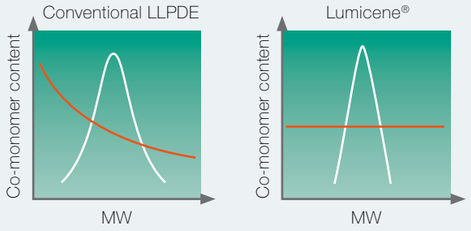
M3581UV, M4041UV: TWO HIGH END GRADES COVERING THE MOST DEMANDING APPLICATIONS

At Total, we are committed to the rotomoulding industry.
Our dedicated product slate is based on more than 15 years of experience with metallocene catalysis.

Unique Total Lumicene® technology

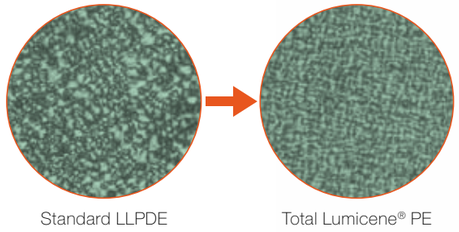
The latest generation Total Lumicene® technology offers you:

- Very good processing (fast sintering and densification)
- Outstanding mechanical properties
- Very good dimensional properties
- Very good optical properties
- Low permeability to fuels and solvent



Total Lumicene® smaller microstructure has positive effects on:

- Impact strength
- Impermeability to fuels
- Resistance to creep
- Chemical resistance (ESCR)
- Adhesion properties
- Dimensional properties
- Surface finish



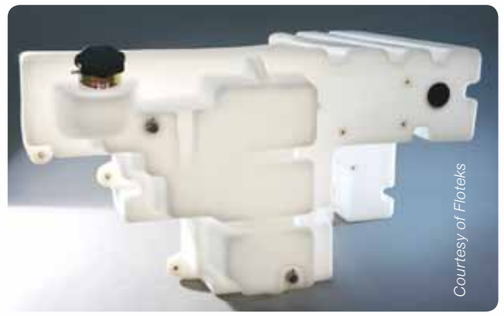
Technical and heavy duty parts

- High impact
- Outstanding surface aspect
- Superior dimensional properties

Humanitarian aid fridge, Copyright DOMETIC

Heating oil and fuel tanks

- Outstanding record of durability
- Wide processing window
- Easy grinding

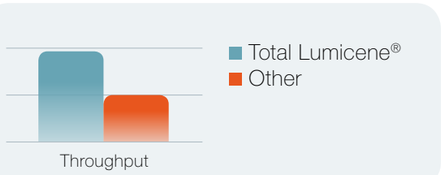


Grade	M3581UV	M4041UV
Density	0.935	0.940
Melt-flow	6	4
Anti-UV	High	Outstanding
Yield strength	18	21
Tensile strength	11	21
Elongation at break	> 700	> 800
Flexural modulus	700	730
Melting temperature	123	126
Typical applications	Fuel tank, technical and automotive parts	Heating oil tank, automotive parts

SAVE TIME AND MONEY BY GRINDING PELLETS OR ASK FOR TOTAL LUMICENE® BASED COMPOUNDS

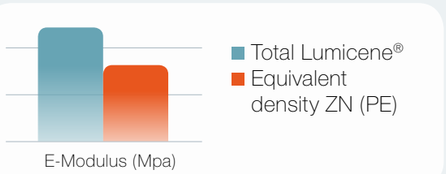
Easy grinding

Wider processing window
Up to **40%** higher grinding output



Enhanced rigidity

Better rigidity on finished products
(bottles 1,5mm thick.)



Key features of Total second generation metallocene PE

Easy grinding / improved processing / outstanding creep and impact properties / outstanding chemical resistance / better impermeability to fuels