

## Lumicene® mPE

Total Lumicene® metallocene polyethylene (mPE) offers the synthetic turf yarn the ideal balance of softness and mechanical properties required for technically demanding contact sport pitches.

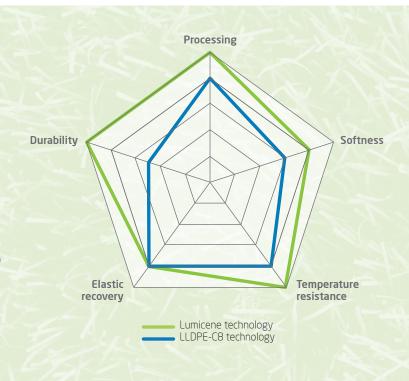
The exceptional mechanical performances of Lumicene® mPE, enabled by the use of hexene (C6) comonomer and Total's proprietary catalyst technology, give the yarn a higher quality and durability level compared to alternative C4, C6 and C8-LLDPE.

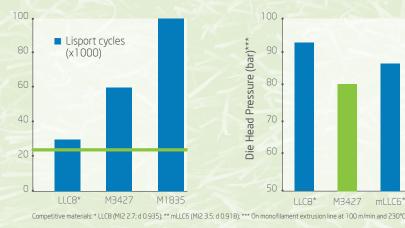
#### **KEY BENEFITS**

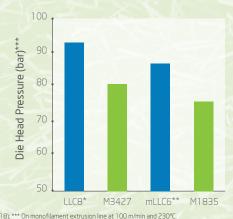
- Improved durability (resistance to fibrillation)
- Superior tuft lock
- Softness
- Exceptional thermal resistance
- Easy processing
- Outstanding consistency
- Low die deposit

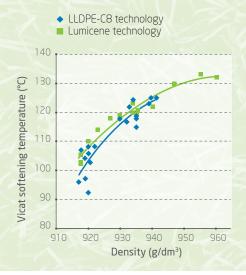


The exceptional performances of Lumicene® mPE enable the production at high output of top quality yarns exhibiting superior mechanical durability together with outstanding thermal resistance.









Whether your game is football, rugby, hockey or golf, we have the ingredients for the most competitive yarn. As a pioneer in metallocene catalyst and process technology for linear polyethylene, we have built an extensive know-how and product range to let you score.

For soft landscaping yarns with outstanding quality consistency, choose our Lotrene® LLC4, and for non-contact sports, landscaping, and carpet backing applications, we offer a broad range of polypropylene resins.

Whatever your challenge, our complete portfolio and recognized expertise in polymer chemistry will bring you a solution, because







# "Yarn Chemistry is our Field"

PE		TYPICAL APPLICATIONS					
	<b>Density</b> g/cm <sup>3</sup>	<b>Melt flow index</b> (2.16 kg - 190 °C) g/ 10 min	<b>VICAT</b> °C	Contact sport	Non contact sports	Land- scaping	Backing
Lumicene® M1820EP	0.918	2.0	102	Х			
Lumicene® M1835	0.918	3.5	99	X			
Lumicene® M2310EP	0.923	0.9	114	Х			
Lumicene® M2735	0.927	3.5	118	X	Х	X	
Lumicene® M3427	0.934	3.1	120	X	Х	Х	
Lotrene® Q2018	0.918	2.0	100			Х	

PP	MAIN PROPERTIES			TYPICAL APPLICATIONS				
	<b>Melt flow index</b> (2.16 kg - 230 °C) g/ 10 min	Flexural Modulus MPA	lzod notched (at 23 °C) kJ/m²	Contact sport	Non contact sports	Land- scaping	Backing	
Homopolymers								
PPH 3060	1.8	1300	6.0		Х	Х	Х	
PPH 4060	3.0	1350	5.0			Х	Х	
Impact Copolymers								
PPC 3640	1.3	1300	7.0		Х			
PPC 3660	1.3	1200	7.0		Х			
PPC 3650	2.0	1150	6.5		Х			

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