

# TOTAL Polyethylene Bio TPSeal® 1000\_05

Metallocene Polyethylene  
TOTAL Refining & Chemicals

Message:

Bio TPSeal® 1000\_05 is based on a new generation metallocene Polyethylene with hexene as comonomer.  
Bio TPSeal® 1000\_05 also contains a significant level of PolyLactic Acid (PLA) which brings outstanding properties to the final product.  
Bio TPSeal® 1000\_05 is a natural or coloured Specialty Compound, provided preferably under a powder form (it can also be pellets).  
It is suitable for use in Rotational Moulding.  
Main Characteristics  
Suitable for monolayer and multi-layer with foam technology.  
Application  
Kayak, Surfboard.

General Information			
Features	hexene comonomer		
Uses	Water Sports Equipment		
	Surfboard		
	Foam		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
	Natural color		
Forms	Powder		
	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	> 0.955	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal, F50)	> 100	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (4.50mm, rotational molding)	1000	MPa	ISO 527-2/1B
Tensile Stress (yield, 4.50mm, rotational molding)	23.0	MPa	ISO 527-2/1B
Tensile Strain (fracture, 4.50mm, rotational molding)	200	%	ISO 527-2/1B
Impact	Nominal Value	Unit	Test Method
Multi-Axial Instrumented Impact Energy (-20°C, 4.50mm, rotational molding, total impact penetration energy)	65.0	J	ISO 6603-2

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

