

ORIGIN OF END-OF-USE POLYMERS	OceanIX is our range of high-quality post-consumer recycled, (PCR) raw materials originating from end-of-life maritime gear that would otherwise end up in our oceans or on landfill, sourced for preventive action to eradicate plastic pollution, and suitable to be used at 100% or in a blend.
RECYCLING STEPS	Rough Sorting; Fine Fractioning/Homogenisation; Metal Detection; Shredding; Washing; Separation; Compounding; Extrusion
SELECTED PROCESSING SUITABILITY	Most suitable: Injection Moulding; 3D Print; Extrusion (e.g.: sheets; fibres; films; pipes; tubes); Thermoforming; 3D Free Form Injection Moulding Possible: Blow Moulding (e.g.: bottles); Roto Moulding
COMPLIANCE¹	REACH ; RoHS ; Recycling Norms (European Norm: EN15344:2007 and Spanish Norm: PNE53978)

TECHNICAL DATA

PHYSICAL PROPERTIES

	METHOD / INFO	CONDITIONS	VALUE	UNITS/COMMENTS
Melt Flow Index, MFI	ISO 1133-1	230°C, 2,16 kg	2,6 to 4,5	g/10 mins
Density	ISO 1183-1-Method A	Immersion	0,91 to 0,93	g/cm3
Shape		Visual inspection	Regular shaped granules	
Color		Visual inspection	Green	
Color variation	CieLAB		<5,0	Delta E
Smell			No	
Recycled Content			98	%
Filtration Level		Mesh Size	200	μ
Contamination	No of defects on extruded film		n/a	defects/dm2
Other Polymers	DSC and FT-IR Analysis		30	% (HDPE)
MECHANICAL PROPERTIES (AT 23°C)				
Tensile strength ²	ISO 527-1/2		27 to 36	N/mm2 (MPa)
E-modulus ²	ISO 527-1/2		> 900	%
Flexural Modulus	ISO 178		n/a	%
Charpy Impact Strength	ISO 179-1/1eU ^b	Unnotched	100 to 130	kJ/m2
THERMAL PROPERTIES				
Melting Point	ISO 11357-1/3		160 to 166	°C
ASH CONTENT	ISO 3451-1		< 1,5	%

¹ Testing Frequency: 1 composite sample per 12 hour shift. A composite sample is comprised of an increment from each Bigbag that is produced during the shift
² Performed on injection moulded samples type 18.

Material handling: rPPC granules need normally not to be dried. However, condensation of atmospheric moisture inside the packing may occur due to fluctuating temperatures and high humidity upon storage. Plastix recommends that the material is pre-dried to remove possible condense moisture, which could be done normally with 2 hours drying at 80°C or according to our customers' normal pre-drying procedure for PP.

ECO FOOTPRINT

By using OceanIX rPPC and with reference to Plastix' Life Cycle Assessment (LCA) you are saving our planet for 1675 kg equivalent emissions in comparison with similar virgin plastic material, every time you use 1000 kg OceanIX rPPC, improving CO₂ emission savings by a factor 1 : 5,7. Depending on your application, the percentage of OceanIX rPPC used and the end of life option for your own product, you could even further increase the CO₂ and resource savings.
 By using OceanIX rPPC as your prevailing Green Plastics raw material choice you directly contribute to further closing the material loops, reducing landfilling, marine pollution and loss of valuable resources.

FOR FURTHER TECHNICAL INFORMATION PLEASE CONTACT

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