

Circular Plastic rPE COLOR



CIRCULAR POLYETHYLENE FROM CONTAINER PARCS AND COMMERCIAL WASTE

Renewi collects, sorts and regrinds post-consumer and post-industrial mixed rigid plastic waste streams from Households, Retail, DIY, Restaurants and other commercial or governmental businesses.

By purifying and sorting mixed plastics into high-quality polyethylene regrind, Renewi is producing a stable base grade for the conversion and compounding industries to create high-end circular plastic products, reducing the use of fossil virgin plastics and saving over 75% CO₂ emissions¹.

Product Characteristics

"Circular Plastic rPE Color" is a > 99% Post Consumer Recyclate (PCR) grade in regrind form with a low residual odor. The material has a very low share of black particles, making it more suitable for coloring. A polymer purity level of > 95% makes this grade a good basis for high-end applications that require stable processability and performance.



This product is not tested and therefore not validated for use in food, pharmaceutical, medical, or potable water applications.

Physical

Description	Unity	Typical value	Standard
Meltflow Index (190°C/2.16 kg)	g/10 min	2.5	ISO 1133-1
Density	kg/m ³	945	ISO 1183-1
Ash content	%	< 2.0	ISO 3451-1/A/600°C
Volatiles	%	< 0.5	ASTM D6980 @ 120°C
PE Content	%	> 95	Sesotech
Black particles	%	< 2.5	Sesotech
Product carbon footprint ²	kg CO ₂ eq/t	438	ISO 14040 and 14044

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¹Virgin CO₂ emissions, see report CE_Delft_220327_CO2-winst_met_kunststofrecycclaaf_Def

²Source: TNO, LCA methodology