

Total's commitment towards a circular economy sees new grades with recycled content become available



Total has released two new rPE grades aimed at extrusion blow moulding. The grades contain post-consumer recyclate, are 100% fragrance free and have virgin equivalent properties. Total also have a range of standard recycled materials. Sourced from selected European recyclers, this range includes HDPE's aimed at extrusion blow moulding and PP grades suitable for injection moulding.

The grades are two rPE grades that are aimed at extrusion blow moulding - rPE6407 and rPE6306, containing 25% and 50% post-consumer recyclate respectively. What makes these grades really interesting is that Total have stated that these polymers will be both 100% fragrance free and will have properties that are at least equivalent to virgin.

What is a circular economy?

A circular economy is a supply chain in which the maximum value is extracted from resources by the use of recycling, to recover the material and reprocess it so that it can go through multiple service lives. This gives the advantages of minimising waste generation and helping boost the economy with new opportunities.

How have Total made these grades possible?

Total have used their supply chain contacts to source high quality recycled material. This is typically waste collected and recycled in Western Europe from selected recyclers.

To make the polymers 100% fragrance free Total has developed a deep decontamination process.

Total are then using their expertise in polymer production and compounding the recycled material with 'virgin boosters'. These are designed specifically to compensate for the downfalls usually associated with recycled material and bring in polymer virgin equivalent properties.

Total also have a range of standard recycled materials. Again sourced from selected European recyclers, this range includes HDPE's aimed at extrusion blow moulding and PP grades suitable for injection moulding with MFRs ranging from 21 to 70.

For more information contact
Plastribution on 01530 560 560. 

Non-food recycled polyolefins for blow moulding (HDPE) or injection moulding (PP)

Grade	Type	Density (g/cm ³)	MI (g/10')	Colour	Stiffness (MPa)
rPE6506	HDPE	0.959	0.6	Natural	-
rPE6455	HDPE	0.955	0.3	Grey	-
rPPC20GR	PP	0.915	21	Grey	1150
rPPC35GR	PP	0.950	35	Grey	1300
rPPC35BL	PP	0.919	35	Black	1100
rPPC70GR	PP	0.915	70	Grey	1150

Post-consumer: recyclate: collected and recycled in West European countries, selected recyclers

Exclusive circular solution with virgin booster

Grade	%PCR	Density (g/cm ³)	HLMI (g/10')	ESCR 100% (h)
rPE6407	25%	25%	40	>70h
rPE6306	50%	50%	30	>300h

Guaranteed properties and consistency - virgin equivalent at least
100% fragrance free - TOTAL deep decontamination process

