TOTAL PETROCHEMICALS

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TOTAL PETROCHEMICALS LAUNCHES A NEW TRANSPARENT POLYPROPYLENE FOR FOOD PACKAGING

TOTAL PETROCHEMICALS
sa PetroFina nv
rue de l'Industrie,52
Nijverheidsstraat,52
B-1040 Brussels
www.totalpetrochemicals.com

PRESS PRODUCT CONTACT:
Patrick Haemers
Business Communications Manager
Phone :+ 32 2 288 3143
Mobile : +32 475 660 786
Fax : + 32 (2) 288 33 69
Patrick.haemers@total.com

A high fluidity (MFI 80 g/10 min) random copolymer, the new PPR 12232 grade has been specifically developed for the injection moulding of transparent containers. With this innovative grade, Total Petrochemicals aptly fulfils the specific requirements of food packaging container manufacturers.

Food compatibility, odour neutrality The PPR 12232 grade has been specially designed to fulfill the organoleptic expectations of manufacturers of food packaging. Total Petrochemicals has developed comprehensive technological know-how as well as new formulations in this field with the aim of significantly reducing the odour impact of the resins.

Shorter production cycles, energy and maintenance savings The PPR 12232 high fluidity copolymer features particularly low viscosity at high shear rates. For converters, this innovative grade offers countless benefits: Studies conducted at the development stage show that its lower injection temperature generates a significant reduction in the moulding cycle (heating / cooling). The table (fig. 1) gives a major insight into the time saved when medium viscosity grades are replaced by PPR12232. Replacing MFI 40g/10min by MFI 80g/10min can therefore produce a 30% reduction in the production cycle .The combined effect of shorter heating and cooling times during the production cycle affords significant energy savings. The possibility of producing mouldings at lower pressures extends the lifetime of moulds and injection moulding machines. This grade's excellent injection condition in multi-cavity moulds optimizes the moulding operation. Meanwhile, the high fluidity of PPR 12232 helps reducing wall thickness to a minimum. Compared to other resins, this new grade yields the dual benefit of improved profitability and superior end -result.

Lower investment costs For the same result, a lower injection pressure allows the moulding of intricately shaped containers with less sophisticated and smaller machines. The table (fig. 2) in the box gives an example of the size of machine used to inject a 20-liter "boxes" via a single injection point and with a 25% pressure reduction.

Fig.1: Time saved when medium viscosity grades are replaced by PPR 12232

	40 g/10 min (controlled rheology)	60 g/10 min (controlled rheology)
New range PPR 12232	-30%	-10%

Fig. 2: Machine size required for a 20 litre boxe injection

Melt Flow Index (MFI)	PPR 12232	60 g/10 min
Machine size required for injection via a single point	500 tons	650 tons

TOTAL PETROCHEMICALS OFFERS A COMPREHENSIVE POLYPROPYLENE RANGE FOR FOOD PACKAGING.

FOR FURTHER TECHNICAL INFORMATION, PLEASE CONTACT OUR MARKETING DEPARTMENT BY E MAIL AT:
Emmanuel.humbeek@total.com

OR VISIT OUR WEB SITE:
www.totalpetrochemicals.com

TOTAL

Total Petrochemicals encompasses petrochemicals activities of Total, the fourth largest oil company worldwide. Its business includes base petrochemicals from steam crackers and certain refinery processing plants – olefins (ethylene, propylene), C4 fractions and aromatics (benzene, toluene, xylenes and styrene) –, as well as the commodity polymers they derived from (polyethylene, polypropylene, polystyrene). Total Petrochemicals employs 7000 persons in Europe, the United States, the Middle East and Asia. Its products are used in many consumer and industrial markets, including Packaging, Construction and Automotive.