



TOTAL
COMMITTED TO BETTER ENERGY



NON-PHTHALATE PP SOLUTIONS

NON-PHTHALATE CATALYSTS

Total offers a range of polymers using non-phthalate catalysts

Innovation in PP

As a leading company in petrochemicals, Total has reached a new milestone in its innovation path for polypropylene (PP), and is now able to offer a broad range of products made using non-phthalate catalysts.

The company's pioneering approach covers all conversion technologies and has led to the development of dozens of grades of homopolymers, random copolymers, and — most challenging of all — impact copolymers made with non-phthalate catalysts which meet existing specifications.

Total has been able to help its customers with its non-phthalate catalyzed PP in a variety of market segments, including primarily flexible and rigid packaging, healthcare, personal care and medical products.

85% of our PP range is available in a non phthalate catalyst version :

It includes

- Random copolymers (PPR)
- Heterophasic copolymers (PPC)
- Homopolymers (PPH).



A TYPICAL EXAMPLE ...

Coffee containers

We do have **an approved phthalate-free solution** for coffee containers allowing brand owners to move away from phthalate-based PP when required ...



Grade	<i>MFI</i> (2.16 Kg – 230°C) (g/10min)	<i>Flexural Modulus</i> (MPa)	<i>Izod Notched</i> (at 23°C KJ/m ²)
Homopolymers			
<i>PPH 3060</i>	1.8	1300	6
Random Copolymers			
<i>PPR 3260</i>	1.8	1000	7.5

Non-phthalate version available upon request