CHEMISTRY THAT MATTERS™

REDUCE WASTE BOOST EFFICIENCY

DOWN GAUGING AND FASTER PROCESSING SOLUTIONS FOR THIN WALL PACKAGING



INCREASING PERFORMANCE REDUCING WASTE

With tomorrow’s resource challenges, packaging has a crucial role to play, particularly in helping to reduce waste in the global food supply and, in protecting goods for consumers while complying with ever more stringent regulations that are put in place to increase food and consumer safety in packaging industry.

Today’s fast-paced lifestyles also are driving demand for pre-packed food; for hot filled packaging such as cups and bottles as well as microwave use. At the same time, consumer expectations are driving OEMs and brand owners to create packaging that is robust, easy to open and distinctively shaped with vibrant graphics. In addition to looking good, packaging has to keep products fresher longer while preserving their taste and smell while complying with stringent food and safety regulations.

These challenges need to be met while lowering weight and cost by reducing packaging thickness with down gauging, faster production cycle times, and minimizing waste and the environmental impact. SABIC is helping customers in packaging industry to meet these challenges by its extensive polypropylene portfolio solutions for thin wall packaging. These injection-molding product portfolio developed for applications such as containers, caps and closures in rigid packaging and for consumer goods.

SABIC has a strong focus on sustainability in its solutions for the packaging industry. For example our new FLOWPACT grades are part of the new wave of products from SABIC for thin wall packaging. It is an important step forward that should enable our customers to use less material and less energy to produce rigid packaging with the same or even better properties than before, more quickly than before.

SABIC has a team of experts dedicated to thin wall packaging with polymer portfolio that is designed to cater needs of our customers in the industry. This is part of a major innovation drive in the company



THERMOFORMING

SABIC® PP 527K resin delivers numerous processing and aesthetic benefits for converters specializing in thermoforming.



SABIC® PP 527K ALL CLEAR POLYMER

SABIC® PP 527K meets the highest clarity and top load requirements. Its high rigidity contributes to weight optimization in packaging, while the transparency enables customers' branding to be easily applied.

This grade is typically suitable for fruit, vegetable, meat, fish, poultry and ambient food packaging.

PRODUCT NAME	TYPE	MFR 230°C/ 2.16 KG (G/10 MIN)	MAIN CHARACTERISTICS
83MF10	PP Block copolymer	1.8	Enhanced impact behavior
56M10	PP Block copolymer	6,2	Enhanced impact behavior
QRYSTAL QR681K	PP Random	2.2	Improved cold impact and transparency
525P	PP homopolymer	3	Allround thermoforming grade, translucent
527K	PP homopolymer	3	Enhanced transparency at higher stiffness
500P	PP homopolymer	3,1	Allround thermoforming grade, translucent
571P	PP homopolymer	5,7	Allround thermoforming grade, translucent

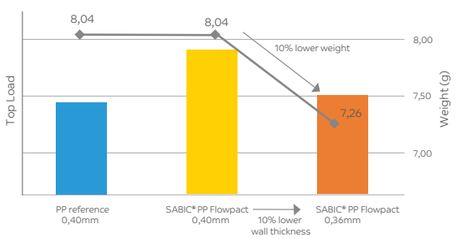


Figure showing SABIC® PP FLOWPACT resin which is typically used for production of rigid packaging with possibilities for down gauging due to its good stiffness resulting in a high top load performance. The good flow behavior of SABIC® PP FLOWPACTfacilitate thin walling and fast injection, and a higher crystallization temperature will enable parts to be de-molded faster - all possibly reducing energy consumption and increasing productivity at the processor.

INJECTION MOLDING

SABIC® PP QRYSTAL and SABIC® PP FLOWPACT polymer grades are, besides thin wall packaging, typically used by our customers in caps and closures, housewares, kitchenware and food packaging, among other injection molded applications. These grades deliver numerous processing benefits, helping to achieve significant energy savings, which help to decrease end products' carbon footprint.



SABIC® PP FLOWPACT POLYMER

The SABIC® PP Flowpact range includes 4 grades. Specifically designed to improve conversion economics, shorter cycle times, lower energy costs and increased downgauging possibilities make it easier for converters to produce thin walled parts more consistently. These plastics have good stiffness, flow behavior and antistatic properties, which enable easy mold filling and demolding.

SABIC® PP QRYSTAL POLYMER

With 4 high-quality grades, the SABIC® PP Qrystal range combines high transparency, gloss and antistatic properties with strength and stiffness. Its good flow behavior means processing can be done at significantly lower temperatures without increasing injection pressure or affecting aesthetics. This reduces the cycle time, energy consumption and ultimately, production costs.

PRODUCT NAME	TYPE	MFR 230°C/ 2.16 KG (G/10 MIN)	MAIN CHARACTERISTICS
412MN40	PP Block copolymer	37	Good flow behavior, impact
FLOWPACT FPC45	PP Block copolymer	45	High flow, excellent impact/stiffness balance, fast processing
FLOWPACT FPC70	PP Block copolymer	70	Very high flow, good properties balance, fast processing
FLOWPACT FPC100	PP Block copolymer	100	Very high flow, good properties balance, fast processing
FLOWPACT FPH50	PP homopolymer	50	High flow, enhanced transparency at higher stiffness
QRYSTAL QR673K	PP Random	25	Excellent transparency, good properties balance
QRYSTAL QR674K	PP Random	40	Excellent transparency, good flow behavior and stiffness
QRYSTAL QR675K	PP Random	60	High flow, excellent transparency
QRYSTAL QR678K	PP Random	80	Very high flow, excellent transparency

At SABIC, we work closely together with our customers to continuously improve the performance of our products to ensure we meet the demands and our customers' requirements as much as possible. Our technical experts are available to offer you advice on your specific applications. If you want to have an overview of all SABIC's solutions for the thin wall packaging market, please visit www.sabic.com/europe/en/products-services/plastics/.

CONTACT US

Riyadh, Saudi Arabia
SABIC Headquarters
PO Box 5101
Riyadh 11422
Saudi Arabia

T +966 (0) 11 225 8000
F +966 (0) 11 2259000
E info@sabic.com

Europe
SABIC
PO Box 5151
6130 PD Sittard
The Netherlands

T +32 (46) 722 2222
F +32 (46) 722 0000
E info@sabic-europe.com

Asia Pacific
SABIC
9 Raffles Place
55-01 Republic Plaza
Singapore 048619

T +65 657 2555
F +65 657 2557
E info@sabic.com.sg

United States
SABIC
Suite 650
2500 City West Boulevard
Houston, TX 77042
USA

T +1 713 532 4999
F +1 713 532 4994
E info@sabicamericas.com

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