

CHEMISTRY THAT MATTERS™



SMART CAPS & CLOSURES

MATERIALS FOR SECURE SEALING AND EASY DISPENSING



CAPS AND CLOSURE SOLUTIONS FOR YOUR SUSTAINABILITY GOALS

The increasing world population, rising middle-class and change in life-style with on-the-go consumption is driving the growth in closures, dispensing systems and pumps with more features and a clear trend in the use of more advanced materials.

The value chain of caps & closures industry is clearly looking for improved functionality, security of content, quality and favorable economics. SABIC® PP, PE and ETP products are excellent candidates for use in optimized, lighter caps and closure designs in combination with easy processing.



PORTFOLIO



SABIC offers one-stop-shop innovative polymer materials for caps, closures and product delivery mechanisms for beverages including still and carbonated water, carbonated soft drinks, juice and dairy, food and non-food applications.

We offer one of the broadest portfolio in the industry for caps and closures including materials based on polypropylene (PP), high-density polyethylene (HDPE), linear low-density polyethylene (LLDPE), low-density polyethylene (LDPE) and engineering thermoplastics such as polycarbonate (PC).

These materials offer potential benefits such as

- Very good organoleptic properties to provide highest purity water without not intended taste or smell
- Very good environmental stress cracking resistance to enhance weight optimization
- Lower temperature processing than many commonly used materials, leading to significant reduction in cycle times and energy consumption
- Good balance of impact strength, stiffness and aesthetics



SABIC® PE POLYMERS

SABIC® HDPE ORGANOLEPTIC POLYMER

Grades	Density	MFR2	Applications
CC027C	954	0.8	Highly carbonated drinks, light closures, multimodal
CC254	953	2.1	Slightly carbonated/pressurized beverages, tea and juices, multimodal
CC453/CC453G	953	4	Slightly carbonated/pressurized beverages, tea and juices
CC860V	960	8	Still water low volatiles
CC860	960	8	Still water
CC862	962	8	Still water

SABIC® HDPE NON-ORGANOLEPTIC POLYMER

Grades	Density	MFR2	Applications
B6246LS	962	0.5	UN closures, chemicals
M40053S/M453SE	953	4	Chemicals, slightly carbonated drinks, tea and juices
M40060S	960	4	Various use
M80064/M864E/M864EG	964	8	Overcaps
M80064S/M864SE	964	8	Overcaps
M1053	953	10	Edible oil, overcaps, spouts
CC2056/M200056	956	20	Milk, cosmetics overcaps
CC3054/M300054	954	30	Milk, cosmetics overcaps, spouts, compounds for liners

SABIC® LDPE POLYMER

Grades	Density	MFR2	Applications
2404H4	924	4.7	Closures, tamper evidence ring for aluminium closures
HP7022	922	7	Glass bottle lids, sport caps, spouts, compounds for liners
2308N0	924	7.5	Glass bottle lids, sport caps, spouts, compounds for liners
2015N0	920	15	Glass bottle lids, sport caps, spouts, compounds for liners
1922N0	919	22	HOD water, caps
HP20023	923	20	HOD water, caps
1965N0	919	65	Lids
2502X0	925	2	Foamed Liners
2102X0	921	1.9	Foamed Liners
2102X3	921	2.5	Foamed Liners
2404H4	924	4.7	Foamed Liners
1905U0	920	5	Foamed Liners

SABIC® LLDPE POLYMER

Grades	Density	MFR2	Applications
M200024	924	20	Glass bottle lids, caps, spouts
M500026	926	50	Glass bottle lids, caps, spouts

SABIC® HDPE POLYMER PHARMACOPEA

Grades	Density	MFR2	Applications
PCG40053	953	4.7	Closures
PCG80063	964	8	Closures, devices
PCG300054	954	30	Closures, devices

SABIC® LDPE POLYMER PHARMACOPEA

Grades	Density g/10min	MFR g/10min	Applications
PCG07	920	7.5	glass bottle lids, caps, spouts
PCG09	924	7.5	glass bottle lids, caps, spouts
PCG22	919	22	glass bottle lids, caps, spouts

SABIC® PP POLYMERS

SABIC® PP HOMOPOLYMER

Grades	MFR - 12 /230°C	IZOD +23°C	E-MOD	Applications
571P/5701P	5.7	3	1700	General purpose (hinged caps)
520L	10	3	1700	General purpose lubricated
575P/5703P	11	3	1700	General purpose (hinged caps, deodorant balls)
576P/5780P	19	3	1800	General purpose (hinged caps, pump parts)
576S	19	3	1800	General purpose (hinged caps, pump parts)
578L	25	3	1700	Hinged caps (low opening force & scratch resistance)
5707N	25	3	1900	High stiffness caps
579S	47	2.5	1750	Wide mouth and detergent caps
FPH50	50	2.5	2050	Wide mouth and detergent caps

SABIC® PP RANDOM COPOLYMER

Grades	MFR - 12 /230°C	IZOD +23°C	E-MOD	Applications
QR6701K	10	5	1050	Overcaps, lids, cosmetic caps
QR673K	25	5	1050	Overcaps, lids, cosmetic caps
RA12MN40	40	4	1000	Overcaps, lids, cosmetic caps
QR674K/QR6711K	40	4	1150	Overcaps, lids, cosmetic caps
QR675K	60	4	1100	Overcaps, lids, cosmetic caps

SABIC® PP BLOCK COPOLYMER

Grades	MFR - 12 /230°C	IZOD +23°C	IZOD -20°C	E-MOD	Applications
83MF10	1.8	no break	12	1200	General purpose (hinged caps)
46MKN45	6	8.5	3.5	1500	Two pieces CSD closures
56MN10/56M65	6.2	7.5	4	1550	General purpose (hinged caps)
PHC26	8	no break	10	1250	High impact resistant caps
PHC27	14	no break	9	1000	High impact resistant caps (child resistant)
48M10	15	8	5	1400	General purpose (hinged caps)
48M40	15	8	5	1400	General purpose (hinged caps)
58MKN10/57MKN10	15	11	6	1550	General purpose (hinged caps)
PHC31	15	11	5	1300	General purpose (child resistant closure)
PHC28/46MK45	20	no break	7	1300	High impact resistant caps
PPA20	20	5	2	1550	High gloss, scratch resistance, low stress whitening
412MN40	37	8	5	1700	Sprayer, wide mouth and hinged caps
FPC45/511MK46	45	7	3.5	1700	Sprayer, wide mouth and hinged caps (short cycle)
FPC70/512MK46	70	6	3	1700	Thin walled caps

SABIC® PP GRADES FOR HEALTHCARE APPLICATIONS

Grades	MFR - 12 /230°C	IZOD +23°C	E-MOD	Applications
PCGH19	19	2.5	1900	IV bottles, eye drops & medical compounding
PCGR02	1.7	10	900	IV bottles, eye drops & medical compounding
PCGR40	40	4	1150	Lubricated
PCGR40L	40	4	1150	Lubricated



COLLABORATION ACROSS THE CAPS & CLOSURE INDUSTRY

Having a global segment organization for caps & closures is an evidence of SABIC's commitment to the customer driven strategy and industry focus, which will increase speed to market of innovation material solutions and respond to service needs of customers and OEM's with dedicated sales and technical support.



To assist our customers with application design, development, testing and process optimization, SABIC has a dedicated team focused on the caps & closures industry and a comprehensive solutions focusing on sustainability. SABIC experts can help you with

the selection of the best material. Our technical specialists collaborate with you early in the process to align materials with design, streamline the transition to commercial production and accelerate time to market.

OTHER AVAILABLE MATERIALS

VALOX™ RESIN - PBT

Grades	MVR 250°C 2.16 kg	Flex Mod	Applications
VALOX 325/325FC Resin	20	2400	Labware
VALOX 420 Resin	12	8000	30% GF, labware

SABIC® POM - POLYACETAL

Grades	MFR	Density	Applications
140S	14	1141	Mechanical parts for pumps, sprays
280S	27	1141	Mechanical parts for pumps, sprays
460S	45	1141	Mechanical parts for pumps, sprays

LEXAN™ RESIN - PC

Grades	MVR 300°C 1,2kg	Flex Mod (Mpa)	Applications
LEXAN 104R Resin	7	2300	Transparent overcap
LEXAN 144R Resin	10.5	2300	Transparent overcap
LEXAN 124R Resin	17.5	2300	Transparent overcap
LEXAN HF1140R Resin	26	2350	Non refillable bottle cap
LEXAN HF1840R Resin	36	2300	Non refillable bottle cap

SABIC® PMMA - ACRYLIC

Grades	MFR 230°C 3,8kg	Applications
140HF	14	Luxury packaging

CYCOLAC™ RESIN - ABS

Grades	MFR 200°C 5kg	Flex Mod (Mpa)	Applications
CYCOLAC MG47/MG47F Resin	18	2300	Multipurpose
CYCOLAC MG94/MG94F Resin	42	2620	Multipurpose



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