

PRODUCT LINE GUIDE: GELOY™ RESINS

GELOY resins are amorphous PC/ASA blends that offer excellent property retention after weathering of ASA materials and the superior mechanical properties and heat resistance of polycarbonate (PC) resins.



NON-FLAME RETARDANT GELOY RESINS

MVR: 260°C/5KG, CM³/10MIN; FLEXURAL MODULUS, 2MM/MIN, MPA;
IZOD IMPACT, NOTCHED, +23°C, KJ/M²; VICAT B120 SOFTENING TEMP, °C;
UL 94 FLAME CLASS RATING

General purpose GELOY resins - PC/ASA blends offering excellent balance of heat, flow and impact with good property retention after weathering

		MVR	FLEXURAL MODULUS	IZOD IMPACT	VICAT SOFTENING TEMP	UL LISTING
XP7550	Injection molding grade combining high flow with a balanced heat and impact performance	26	2550	35	106	—
XP7560	General purpose injection molding grade	20	2500	20	107	HB/3.2
HRA150	High heat resistant, high impact retention and color stability upon weathering. Suitable for various outdoor and indoor applications requiring superior weathering properties	15	2400	45	120	HB/0.75-3.0
HRA170	High heat, high impact resistant injection molding grade with high impact retention	17	2400	60	132	HB/1.6

GELOY anti-dust resins - PC/ASA blends offering excellent balance of heat, flow and impact with good property retention after weathering providing permanent antistatic behavior

HRA170D	High heat, high impact resistant injection molding grade with permanent antistatic behavior. It is typically used in applications that require anti-dust properties and high impact retention	29	2100	60	122	—
---------	---	----	------	----	-----	---

GELOY PMMA resins - PC/ASA/PMMA blends offering best property retention after weathering

XP4025	Medium heat modified injection molding grade for automotive exterior applications. It shows very good properties, gloss and color retention, as well as faster cycle time over competitive material	18	2350	15	107	HB/1.5
XP4034	Medium heat modified injection molding grade suitable for automotive unpainted exterior applications	15	2500	23	109	—

GELOY (Co)Extrusion resins - ASA/SAN blends provide excellent behavior in injection molding, sheet and profile extrusion and blowmolding

CR3020	Low gloss ASA/SAN grade, UV stabilized, for profile extrusion that can be coextruded over ABS, PVC or other compatible polymers	6	1860	25	100	—
CR7020	ASA/SAN grade, UV stabilized, for profile extrusion that can be coextruded over ABS, PVC or other compatible polymers. This grade is also suitable for injection molding	8	1900	15	90	HB/1.0
CR7500	High heat ASA with good flow-impact balance. For automotive applications and automotive colors only	10	2060	15	105	—

PRODUCT LINE GUIDE: GELOY™ RESINS

FLAME RETARDANT GELOY RESINS

MVR: 260°C/2.16KG, CM³/10MIN; FLEXURAL MODULUS, 2MM/MIN, MPA;
IZOD IMPACT, NOTCHED, +23°C, KJ/M²; VICAT B120 SOFTENING TEMP, °C;
UL 94 FLAME CLASS RATING

Flame retardant general purpose GELOY resins - PC/ASA blends using non-brominated and non-chlorinated additives offering good balance of heat, flow and impact

		MVR	FLEXURAL MODULUS	IZOD IMPACT	VICAT SOFTENING TEMP	UL LISTING
HRA222	Multi-purpose injection molding grade	13	2510	17	104	V0/2 5VB/2.3
HRA222F	UV stabilized multipurpose injection molding grade with an f1 rating according to UL746C	13	2510	17	104	V0/2 5VB/2.3

GENERIC PROPERTY COMPARISON

PROPERTY*	PC/ABS	PC/ASA
High heat	●	●
Good processability	●	●
Impact @ RT	●	●
Impact @ low T	●	●
Halogen free FR	●	●
Paintability/platability	●	●
Property retention on UV exposure	●	●
Thermal stability	●	●
Chemical resistance	●	●

● Yes ● No

* Important: these are generic properties, improved specific grades can exist in either product



- Version 1 of 2014
- Applicable for Europe, Middle East & Africa
- This version replaces all previous versions

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right.

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.
© 2016 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

www.sabic.com