

GELOY™ RESINS

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

		MVR	FLEXURAL MODULUS	IZOD IMPACT	VICAT SOFTENING TEMP	UL LISTING
GENERAL PURPOSE						
XP7560	General purpose, good flow.	20	2500	20	107	HB/3.2
HRA170	High impact resistant grade with good impact retention.	17	2400	45	132	HB/1.6-3.2
HRA170E	High heat, BPT >125°C.	17	2400	45	134	HB/1.6-3.2
ANTIDUST						
HRA170D	High heat, high impact resistant injection molding grade with permanent antistatic behavior.	29	2100	45	122	HB/3.2
WEATHERABLE						
XP4025	PC/ASA/PMMA blend. Medium heat, middle impact.	18	2350	15	107	HB/1.5
XP4034	PC/ASA/PMMA blend. Medium heat, high impact.	15	2500	33	109	-
FLAME RETARDANT						
HRA222	Non-brominated and non-chlorinated, FR according UL746H, offering good balance of heat, flow and impact.	13	2510	17	104	5VB/2.3
HRA222F	Non-brominated and non-chlorinated, FR according UL746H, UV stabilized with an F1 rating according UL746C.	13	2510	17	104	5VB/2
	Standard	ISO1033	ISO178	IS180/1A	ISO306	UL94
	Unit	cm ³ /10min	MPa	kJ/m ²	°C	Flame class
	Condition	**260°C/5kg		Notched +23°C	B/120	

GENERAL VALUE PROPOSITION

GENERAL PURPOSE

- Available with non BR & CI flame retardant system, achieving UL94 listing
- Variety of stiffness and flow with balanced heat and practical impact for different wall thickness design
- Good aesthetics with all-colors capability and good paintability
- Lower coefficients of thermal expansion with good dimensional stability / low shrinkage

FLAME RETARDENCY

IMPACT – MEET UL94 RATINGS OVER WIDE RANGE OF GAUGES

- Non BR & CI flame retardant system
- Ease of molding for productivity

RELATIVE COMPARISON OF PROPERTIES

	SABIC® PP	LEXAN™	CYCOLOY™	GELOY™	XENOY™	VALOX™	XYLEX™	SABIC® PMMA	CYCOLAC™
Property	PP	PC	PC/ABS	PC/ASA	PC/PBT	PBT	PC/Polyester	PMMA	ABS
Processability	+++	+	++	++	0	++	+	++	+++
Low Temperature Impact	+	+	++	+	+++	0	+	-	+
Heat	0	+++	++	++	++	+++	++	+	+
Non-halogenated FR available	Yes	Yes	Yes	Yes	N.A.	No	N.A.	N.A.	No
UV Stability	-	+	+	++	++	++	++	++	-
Weatherability	-	+	0	++	++	++	++	++	-
Colorability	+++	++	++	+	+	+	+	++	+++
Aesthetics	++	++	+	+	+	+	+	++	++
Paintability	0	++	++	++	++	0	++	++	++
Density	+++	+	+	+	+	+	+	+	++
Modulus/Impact balance	+	+	++	+	++	0	++	0	++
Transparency	No	Yes	No	No	No	No	Yes	Yes	No

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.

© 2020 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

† Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.