

## SABIC Innovative Plastics GELOY HRA222 ASA

Category : Polymer , Thermoplastic , ASA Polymer

### Material Notes:

GELOY HRA222 is a multi-purpose, chlorine and bromine free flame retardant PC+ASA alloy for injection molding processes. Use for exterior/interior electrical applications requiring UV resistance.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-GELOY-HRA222-ASA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-HRA222-ASA.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.60 %	0.60 %	ISO 62
Melt Index of Compound	13 g/10 min @Load 2.16 kg, Temperature 260 °C	13 g/10 min @Load 4.76 lb, Temperature 500 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	>= 50 %	>= 50 %	5 mm/min; ISO 527
	>= 50 %	>= 50 %	50 mm/min; ISO 527
	>= 100 %	>= 100 %	Type I, 50 mm/min; ASTM D638
	>= 100 %	>= 100 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.2 %	4.2 %	Type I, 5 mm/min; ASTM D638
	4.3 %	4.3 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.52 GPa	365 ksi	1 mm/min; ISO 527
Flexural Yield Strength	93.0 MPa	13500 psi	2 mm/min; ISO 178
Flexural Modulus	2.51 GPa	364 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	17.0 kJ/m <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.0 μm/m-°C	38.3 μin/in-°F	ISO 11359-2
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	102 °C	216 °F	Rate B/50; ISO 306
	104 °C	219 °F	Rate B/120; ISO 306
	111 °C	232 °F	Rate A/50; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 75°C +/- 2°C	PASSES	IEC 60695-10-2

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