

GELOY™ HRA222 resin

Acrylonitrile Styrene Acrylate

SABIC Innovative Plastics Europe

Message:

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.

General Information			
UL YellowCard	E207780-100051536		
Features	Chlorine Free		
	Good UV resistance		
	Bromine-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Outdoor application		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	13.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.60	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2520	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	63.0	MPa	ASTM D638
Fracture ²	56.0	MPa	ASTM D638
Fracture	45.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ³	4.2	%	ASTM D638
Yield ⁴	4.3	%	ASTM D638
Fracture ⁵	> 100	%	ASTM D638
Fracture ⁶	> 100	%	ASTM D638
Fracture	> 50	%	ISO 527-2/5, ISO 527-2/50
Flexural Modulus ⁷	2520	MPa	ISO 178
Flexural Stress	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁸			ISO 180/1A
-30°C	9.0	kJ/m ²	ISO 180/1A

0°C	12	kJ/m ²	ISO 180/1A
23°C	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁹			
0.45 MPa, unannealed, 100 mm span	99.0	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	88.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	111	°C	ISO 306/A50
--	102	°C	ISO 306/B50
--	104	°C	ISO 306/B120
Ball Pressure Test (75°C)	Pass		IEC 60695-10-2
CLTE - Flow (-30 to 80°C)	6.9E-5	cm/cm/°C	ISO 11359-2
NOTE			
1.	Type 1, 50mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 50mm/min		
5.	Type 1, 5.0 mm/min		
6.	Type 1, 50mm/min		
7.	2.0 mm/min		
8.	80*10*4		
9.	120*10*4 mm		

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