

## SABIC Innovative Plastics Gelay XTPMFR15 ASA+PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC) , Polycarbonate/ASA Alloy, Unreinforced

### Material Notes:

Gelay XTPMFR15 is a chlorine and bromine free flame retardant ASA/PC blend with improved impact performance/ductility and an UL94 rating of V0 at 1.5mm. This grade has a f1 rating according UL746C. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Gelay-XTPMFR15-ASAPC-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Gelay-XTPMFR15-ASAPC-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ISO 1183
Viscosity	138000 cP @Temperature 260 °C	138000 cP @Temperature 500 °F	melt; 1500 sec-1; ISO 11443
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 260 °C	18 g/10 min @Load 4.76 lb, Temperature 500 °F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133
	27 g/10 min @Load 10.0 kg, Temperature 220 °C	27 g/10 min @Load 22.0 lb, Temperature 428 °F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133
	30 g/10 min @Load 10.0 kg, Temperature 220 °C	30 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
	47.0 MPa	6820 psi	Type I, 50 mm/min; ASTM D 638
	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	56.0 MPa	8120 psi	50 mm/min; ISO 527
	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D 638
	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	55 %	55 %	Type I, 50 mm/min; ASTM D 638
	60 %	60 %	50 mm/min; ISO 527
	62 %	62 %	Type I, 5 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D 638
	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.25 GPa	326 ksi	1 mm/min; ISO 527
	2.50 GPa	363 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	88.0 MPa	12800 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.18 J/cm @Temperature -30.0 °C	2.21 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	7.00 J/cm @Temperature 23.0 °C	13.1 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	15.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1A
	26.0 kJ/m <sup>2</sup> @Temperature 0.000 °C	12.4 ft-lb/in <sup>2</sup> @Temperature 32.0 °F	80*10*4; ISO 180/1A
	50.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	5.80 J/cm <sup>2</sup> @Temperature 23.0 °C	27.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 μm/m-°C @Temperature -40.0 - 40.0 °C	37.8 μin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 μm/m-°C @Temperature -40.0 - 40.0 °C	38.9 μin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	103 °C	217 °F	Rate B/50; ISO 306

Thermal Properties	104 °C Metric	219 °F English	Rate B/120: ISO 306 Comments
	111 °C	232 °F	Rate A/50; ISO 306
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	UL 94
@Thickness 2.00 mm	@Thickness 0.0787 in		
	5VA	5VA	UL 94
@Thickness 3.00 mm	@Thickness 0.118 in		
Oxygen Index	30 %	30 %	LOI; ISO 4589
Glow Wire Test	800 °C	1470 °F	Glow Wire Ignitability Temperature; IEC 60695-2-13
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	800 °C	1470 °F	Glow Wire Ignitability Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	825 °C	1520 °F	Glow Wire Ignitability Temperature; IEC 60695-2-13
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	850 °C	1560 °F	Glow Wire Ignitability Temperature; IEC 60695-2-13
@Thickness 0.800 mm	@Thickness 0.0315 in		
	960 °C	1760 °F	Glow Wire Flammability Index; IEC 60695-2-12
@Thickness 0.800 mm	@Thickness 0.0315 in		

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	PLC code 0; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A

Descriptive Properties	Value	Comments
UV-light, water exposure/immersion	F1	UL 746C

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