



Europe-Africa-Middle East: COMMERCIAL

Geloy 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.

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	61	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	47	MPa	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	57	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	48	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	4	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	55	%	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	62	%	ASTM D 638
Tensile Modulus, 50 mm/min	2500	MPa	ASTM D 638
Tensile Stress, yield, 50 mm/min	56	MPa	ISO 527
Tensile Stress, break, 50 mm/min	45	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	4	%	ISO 527
Tensile Strain, break, 50 mm/min	60	%	ISO 527
Tensile Modulus, 1 mm/min	2250	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	88	MPa	ISO 178
Flexural Modulus, 2 mm/min	2400	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	700	J/m	ASTM D 256
Izod Impact, notched, -30°C	118	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	50	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 0°C	26	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	15	kJ/m²	ISO 180/1A

Source, GMD, Last Update:

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Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
 Ill properties, expect the melt volume rate are measured on injection moulded samples.
 All samples are prepared according to ISO 294.

Only typical data for material selection purpose.Not to be used for part or tool design.
 This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
 Own measurement according to UL.
 Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

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IMPACT				
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	58	kJ/m²	ISO 179/1eA	
THERMAL				
CTE, -40°C to 40°C, flow	6.8E-05	1/°C	ISO 11359-2	
CTE, -40°C to 40°C, xflow	7.E-05	1/°C	ISO 11359-2	
Vicat Softening Temp, Rate A/50	111	°C	ISO 306	
Vicat Softening Temp, Rate B/50	103	°C	ISO 306	
Vicat Softening Temp, Rate B/120	104	°C	ISO 306	
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	99	°C	ISO 75/Bf	
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	88	°C	ISO 75/Af	
PHYSICAL				
Melt Flow Rate, 220°C/10.0 kgf	30	g/10 min	ASTM D 1238	
Density	1.19	g/cm³	ISO 1183	
Melt Volume Rate, MVR at 220°C/10.0 kg	27	cm ³ /10 min	ISO 1133	
Melt Volume Rate, MVR at 260°C/2.16 kg	18	cm ³ /10 min	ISO 1133	
Melt Viscosity, 260°C, 1500 sec-1	138	Pa-s	ISO 11443	
ELECTRICAL				
Hot Wire Ignition (PLC)	0	PLC Code	UL 746A	
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A	
FLAME CHARACTERISTICS				
UL Recognized, 94V-1 Flame Class Rating (3)	1.2	mm	UL 94	
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94	
UL Recognized, 94-5VA Rating (3)	3	mm	UL 94	
UL Recognized, 94-5VB Rating (3)	2	mm	UL 94	
Glow Wire Flammability Index 960°C, passes at	0.8	mm	IEC 60695-2-12	
Glow Wire Ignitability Temperature, 0.8 mm	850	°C	IEC 60695-2-13	
Glow Wire Ignitability Temperature, 1.0 mm	825	°C	IEC 60695-2-13	
Glow Wire Ignitability Temperature, 2.0 mm	800	°C	IEC 60695-2-13	

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TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
FLAME CHARACTERISTICS Glow Wire Ignitability Temperature, 3.0 mm	800	°C	IEC 60695-2-13
Oxygen Index (LOI)	30	%	ISO 4589

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	80 - 90	°C
Drying Time	2 - 4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	230 - 270	°C
Nozzle Temperature	220 - 260	°C
Front - Zone 3 Temperature	230 - 270	°C
Middle - Zone 2 Temperature	220 - 260	°C
Rear - Zone 1 Temperature	200 - 230	°C
Hopper Temperature	60 - 80	°C
Mold Temperature	50 - 70	°C

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