



Geloy* Resin XTPM405 Americas: COMMERCIAL

High flow PC/ASA with improved impact at room and low temperatures. Improved release. Excellent weatherability for outdoor unpainted or clearcoated applications. Injection Moldable with large color gamut.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	490	kgf/cm ²	ASTM D 638
Tensile Strain, break	90	%	ASTM D 638
Tensile Modulus, 5 mm/min	24400	kgf/cm ²	ASTM D 638
Tensile Stress, yield, 50 mm/min	47	MPa	ISO 527
Tensile Stress, break, 50 mm/min	39	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3	%	ISO 527
Tensile Strain, break, 50 mm/min	55	%	ISO 527
Tensile Modulus, 1 mm/min	2400	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	75	MPa	ISO 178
Flexural Modulus, 2 mm/min	2200	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	144	cm-kgf/cm	ASTM D 256
Izod Impact, notched, 0°C	13	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -20°C	13	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	407	cm-kgf	ASTM D 3763
Instrumented Impact Total Energy, -30°C	112	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	65	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	10	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C	65	kJ/m²	ISO 179/2C
THERMAL			
Vicat Softening Temp, Rate B/50	103	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	88	°C	ISO 75/Af
PHYSICAL			
Melt Flow Rate, 260°C/5.0 kgf	30	g/10 min	ASTM D 1238

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°.C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) 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.

Source GMD, last updated:

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Geloy* Resin XTPM405

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Density	1.12	g/cm³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	14	g/10 min	ISO 1133
Melt Viscosity, 260°C, 1500 sec-1	120	Pa-s	ISO 11443

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit	
Injection Molding			
Drying Temperature	90 - 100	°C	
Drying Time	3 - 4	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.04	%	
Melt Temperature	255 - 270	°C	
Nozzle Temperature	240 - 255	°C	
Front - Zone 3 Temperature	245 - 260	°C	
Middle - Zone 2 Temperature	240 - 255	°C	
Rear - Zone 1 Temperature	230 - 250	°C	
Mold Temperature	55 - 70	°C	
Back Pressure	0.3 - 1	MPa	
Screw Speed	30 - 80	rpm	
Shot to Cylinder Size	40 - 80	%	
Vent Depth	0.038 - 0.076	mm	

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