

# GELOY<sup>™</sup> Resin XTWE270M Americas: COMMERCIAL

ASA, extrusion grade, low gloss, excellent weatherability.

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Source GMD, last updated:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

(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.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.







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TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	69	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.09E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.16E-04	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	82	°C	ISO 306
Vicat Softening Temp, Rate B/120	85	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	71	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.09	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	0.3 - 0.7	%	SABIC Method
Melt Flow Rate, 220°C/10.0 kgf	9.7	g/10 min	ASTM D 1238
Density	1.09	g/cm <sup>3</sup>	ISO 1183
Water Absorption, (23°C/sat)	0.8	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0.2	%	ISO 62
Melt Volume Rate, MVR at 220°C/5.0 kg	2	cm <sup>3</sup> /10 min	ISO 1133

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PROCESSING PARAMETERS	TYPICAL VALUE Unit		
Profile Extrusion			
Drying Temperature	85 - 95	°C	
Drying Time	8	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	190 - 210	°C	
Barrel - Zone 1 Temperature	180 - 200	°C	
Barrel - Zone 2 Temperature	180 - 200	°C	
Barrel - Zone 3 Temperature	180 - 205	°C	
Barrel - Zone 4 Temperature	180 - 205	°C	
Hopper Temperature	60 - 80	°C	
Adapter Temperature	180 - 205	°C	
Die Temperature	185 - 205	°C	
Calibrator Temperature	50 - 70	°C	

• PLEASE NOTE: Processing condition recommended for profile extrusion over PVC substrate.

• PLEASE NOTE: Suggested drying conditions: 4 hours minimum at 5°C (40°F) dew point with dessicant dryer at 80°C (180°F).

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