

GELOY™ RESIN XTWE270M

REGION ASIA

DESCRIPTION

ASA, extrusion grade, low gloss, excellent weatherability.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	36	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	32	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	3.4	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	38	%	ASTM D 638
Tensile Modulus, 5 mm/min	1910	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	56	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1830	MPa	ASTM D 790
Tensile Stress, yield, 50 mm/min	36	MPa	ISO 527
Tensile Stress, break, 50 mm/min	26	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3.4	%	ISO 527
Tensile Strain, break, 50 mm/min	28	%	ISO 527
Tensile Modulus, 1 mm/min	1790	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	56	MPa	ISO 178
Flexural Modulus, 2 mm/min	1870	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	195	J/m	ASTM D 256
Izod Impact, notched, -30°C	70	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	28	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	13	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	7	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	12	kJ/m ²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	85	°C	ASTM D 1525
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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	-	ASTMD 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	ASTMD 1238
Density	1.09	g/cm ³	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 ³ /10 min	ISO 1133
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	