

## Geloy\* Resin GY1226

Americas: COMMERCIAL

ASA/PVC pellets for capstock profile extrusion. Suitable for outdoor unpainted applications. Available in dark colors only.

### Property

| TYPICAL PROPERTIES <sup>(1)</sup>             |          |          |             |
|---|----------|----------|-------------|
|   | Value    | Unit     | Standard    |
| <b>MECHANICAL</b>                             |          |          |             |
| Tensile Stress, yld, Type I, 50 mm/min        | 45       | MPa      | ASTM D 638  |
| Tensile Strain, brk, Type I, 50 mm/min        | 70       | %        | ASTM D 638  |
| Tensile Modulus, 50 mm/min                    | 2890     | MPa      | ASTM D 638  |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span  | 64       | MPa      | ASTM D 790  |
| Flexural Stress, yld, 2.6 mm/min, 100 mm span | 63       | MPa      | ASTM D 790  |
| Flexural Modulus, 1.3 mm/min, 50 mm span      | 2270     | MPa      | ASTM D 790  |
| Hardness, Rockwell R                          | 100      | -        | ASTM D 785  |
| <b>IMPACT</b>                                 |          |          |             |
|   | Value    | Unit     | Standard    |
| Izod Impact, notched, 23°C                    | 1068     | J/m      | ASTM D 256  |
| Izod Impact, notched, -30°C                   | 106      | J/m      | ASTM D 256  |
| Gardner, 23°C                                 | 24       | J        | ASTM D 3029 |
| Gardner Impact (Procedure B)                  | 8006     | J/m      | ASTM D 4226 |
| Gardner, -30°C                                | 10       | J        | ASTM D 3029 |
| Instrumented Impact Total Energy, 23°C        | 55       | J        | ASTM D 3763 |
| Instrumented Impact Total Energy, -30°C       | 54       | J        | ASTM D 3763 |
| <b>THERMAL</b>                                |          |          |             |
|   | Value    | Unit     | Standard    |
| HDT, 1.82 MPa, annealed                       | 84       | °C       | ASTM D 648  |
| HDT, 0.45 MPa, 6.4 mm, unannealed             | 85       | °C       | ASTM D 648  |
| HDT, 1.82 MPa, 6.4 mm, unannealed             | 71       | °C       | ASTM D 648  |
| CTE, -40°C to 40°C, flow                      | 8.46E-05 | 1/°C     | ASTM E 831  |
| <b>PHYSICAL</b>                               |          |          |             |
|   | Value    | Unit     | Standard    |
| Specific Gravity                              | 1.21     | -        | ASTM D 792  |
| Water Absorption, 24 hours                    | 0.11     | %        | ASTM D 570  |
| Melt Flow Rate, 200°C/3.8 kgf                 | 7        | g/10 min | ASTM D 1238 |
| <b>OPTICAL</b>                                |          |          |             |
|   | Value    | Unit     | Standard    |
| Gloss, untextured, 60 degrees                 | 70       | -        | ASTM D 523  |
| <b>ELECTRICAL</b>                             |          |          |             |
|   | Value    | Unit     | Standard    |
| Volume Resistivity                            | 1.8E+16  | Ohm-cm   | ASTM D 257  |
| Surface Resistivity                           | 1.8E+15  | Ohm      | ASTM D 257  |
| Dielectric Strength, in air, 3.2 mm           | 18.7     | kV/mm    | ASTM D 149  |
| Relative Permittivity, 100 Hz                 | 3.5      | -        | ASTM D 150  |
| Dissipation Factor, 100 Hz                    | 0.0021   | -        | ASTM D 150  |

Source GMD, last updated:10/04/1999

### Processing

| Parameter          | Value   | Unit |
|--------------------|---------|------|
| Extrusion          |         |      |
| Drying Temperature | 80 - 90 | °C   |
| Drying Time        | 3 - 4   | hrs  |

|                                 |           |    |
|---------------------------------|-----------|----|
| Minimum Moisture Content        | 0.04      | %  |
| Melt Temperature                | 180 - 200 | °C |
| Barrel - Zone 1 Temperature     | 170 - 180 | °C |
| Barrel - Zone 2 Temperature     | 175 - 190 | °C |
| Barrel - Zone 3 Temperature     | 180 - 195 | °C |
| Die Temperature                 | 175 - 180 | °C |
| Roll Stack Temperature - Top    | 175 - 180 | °C |
| Roll Stack Temperature - Middle | 175 - 180 | °C |
| Roll Stack Temperature - Bottom | 180 - 190 | °C |

Source GMD, last updated:10/04/1999

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(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.

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