

## SABIC Innovative Plastics Geloy XP4034 ASA (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC) , Polycarbonate/ASA Alloy, Unreinforced

### Material Notes:

GELOY XP4034 is a high heat modified ASA+PC alloy. It is a weatherable, injection mouldable product which is available in a wide range of colours. The product is recommended for automotive unpainted exterior applications. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Geloy-XP4034-ASA-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Geloy-XP4034-ASA-Europe-Africa-Middle-East.php)

| Physical Properties                | Metric                                              | English                                             | Comments                                             |
|------------------------------------|-----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|
| Density                            | 1.15 g/cc                                           | 0.0415 lb/in <sup>3</sup>                           | ISO 1183                                             |
| Moisture Absorption at Equilibrium | 0.25 %                                              | 0.25 %                                              | 23°C / 50% RH; ISO 62                                |
| Water Absorption at Saturation     | 0.70 %<br>@Temperature 23.0 °C                      | 0.70 %<br>@Temperature 73.4 °F                      | ISO 62                                               |
| Linear Mold Shrinkage, Flow        | 0.0040 - 0.0060 cm/cm                               | 0.0040 - 0.0060 in/in                               | on tensile bar; SABIC Method                         |
| Melt Flow                          | 15 g/10 min<br>@Load 5.00 kg,<br>Temperature 260 °C | 15 g/10 min<br>@Load 11.0 lb,<br>Temperature 500 °F | [cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133 |

| Mechanical Properties      | Metric                                          | English                                             | Comments            |
|----------------------------|-------------------------------------------------|-----------------------------------------------------|---------------------|
| Hardness, H358/30          | 98.0 MPa                                        | 14200 psi                                           | ISO 2039-1          |
| Tensile Strength at Break  | 45.0 MPa                                        | 6530 psi                                            | 50 mm/min; ISO 527  |
| Tensile Strength, Yield    | 55.0 MPa                                        | 7980 psi                                            | 50 mm/min; ISO 527  |
| Elongation at Break        | 35 %                                            | 35 %                                                | 50 mm/min; ISO 527  |
| Elongation at Yield        | 4.5 %                                           | 4.5 %                                               | 50 mm/min; ISO 527  |
| Tensile Modulus            | 2.35 GPa                                        | 341 ksi                                             | 1 mm/min; ISO 527   |
| Flexural Yield Strength    | 85.0 MPa                                        | 12300 psi                                           | 2 mm/min; ISO 178   |
| Flexural Modulus           | 2.50 GPa                                        | 363 ksi                                             | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO) | 8.00 kJ/m <sup>2</sup><br>@Temperature -30.0 °C | 3.81 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | 80*10*4; ISO 180/1A |
|                            | 33.0 kJ/m <sup>2</sup><br>@Temperature 23.0 °C  | 15.7 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F  | 80*10*4; ISO 180/1A |

| Mechanical Properties           | <sup>120</sup><br>Metric | <sup>120</sup><br>English | Comments             |
|---------------------------------|--------------------------|---------------------------|----------------------|
| Wear Resistance, kg/1000 Cycles | @Load 1.00 kg            | @Load 2.20 lb             | ISO 11, UNBIC Method |

| Thermal Properties                          | Metric | English | Comments                           |
|---------------------------------------------|--------|---------|------------------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 112 °C | 234 °F  | Edgew 120*10*4 sp=100mm; ISO 75/Be |
| Deflection Temperature at 1.8 MPa (264 psi) | 100 °C | 212 °F  | Edgew 120*10*4 sp=100mm; ISO 75/Ae |
| Vicat Softening Point                       | 107 °C | 225 °F  | Rate B/50; ISO 306                 |
|                                             | 109 °C | 228 °F  | Rate B/120; ISO 306                |

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