

## SABIC Innovative Plastics Xenoy® XL1339 PC+PET (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polyethylene Terephthalate (PET)

### Material Notes:

XENOY XL1339 is an unreinforced amorphous PC+PET blend, offering excellent impact performance over a wide temperature range. It combines very good flow characteristics with high heat resistance. XENOY XL1339 has excellent dimension stability, good adhesion to PU based glues and paints, and good UV resistance. XENOY XL1339 was developed for automotive applications like A-pillars, painted and unpainted doorhandles, front grills, etc. 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-Xenoy-XL1339-PCPET-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-XL1339-PCPET-Europe-Africa-Middle-East.php)

| Physical Properties                | Metric                                                           | English                                                          | Comments                                             |
|------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|
| Density                            | 1.22 g/cc                                                        | 0.0441 lb/in <sup>3</sup>                                        | ISO 1183                                             |
| Moisture Absorption at Equilibrium | 0.20 %                                                           | 0.20 %                                                           | 23 <sup>o</sup> C / 50% RH; ISO 62                   |
| Water Absorption at Saturation     | 0.70 %<br>@Temperature 23.0 <sup>o</sup> C                       | 0.70 %<br>@Temperature 73.4 <sup>o</sup> F                       | ISO 62                                               |
| Linear Mold Shrinkage, Flow        | 0.0050 - 0.0080 cm/cm                                            | 0.0050 - 0.0080 in/in                                            | on tensile bar; SABIC Method                         |
| Linear Mold Shrinkage, Transverse  | 0.0050 - 0.0080 cm/cm                                            | 0.0050 - 0.0080 in/in                                            | on tensile bar; SABIC Method                         |
| Melt Flow                          | 4.0 g/10 min<br>@Load 1.20 kg,<br>Temperature 265 <sup>o</sup> C | 4.0 g/10 min<br>@Load 2.65 lb,<br>Temperature 509 <sup>o</sup> F | [cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133 |

| Mechanical Properties      | Metric                 | English                    | Comments            |
|----------------------------|------------------------|----------------------------|---------------------|
| Hardness, H358/30          | 95.0 MPa               | 13800 psi                  | ISO 2039-1          |
| Tensile Strength at Break  | 40.0 MPa               | 5800 psi                   | 50 mm/min; ISO 527  |
| Tensile Strength, Yield    | 55.0 MPa               | 7980 psi                   | 50 mm/min; ISO 527  |
| Elongation at Break        | 70 %                   | 70 %                       | 50 mm/min; ISO 527  |
| Elongation at Yield        | 5.0 %                  | 5.0 %                      | 50 mm/min; ISO 527  |
| Tensile Modulus            | 2.30 GPa               | 334 ksi                    | 1 mm/min; ISO 527   |
| Flexural Yield Strength    | 80.0 MPa               | 11600 psi                  | 2 mm/min; ISO 178   |
| Flexural Modulus           | 2.20 GPa               | 319 ksi                    | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO) | 15.0 kJ/m <sup>2</sup> | 7.14 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A |

| Mechanical Properties        | @Temperature -40.0<br>Metric<br>°C | @Temperature -40.0<br>English<br>°F | Comments                                   |
|------------------------------|------------------------------------|-------------------------------------|--------------------------------------------|
|                              | 25.0 kJ/mÂ²                        | 11.9 ft-lb/inÂ²                     |                                            |
|                              | @Temperature -30.0<br>°C           | @Temperature -22.0<br>°F            | 80*10*4; ISO 180/1A                        |
|                              | 35.0 kJ/mÂ²                        | 16.7 ft-lb/inÂ²                     |                                            |
|                              | @Temperature -20.0<br>°C           | @Temperature -4.00<br>°F            | 80*10*4; ISO 180/1A                        |
|                              | 38.0 kJ/mÂ²                        | 18.1 ft-lb/inÂ²                     |                                            |
|                              | @Temperature -10.0<br>°C           | @Temperature 14.0 Â°F               | 80*10*4; ISO 180/1A                        |
|                              | 40.0 kJ/mÂ²                        | 19.0 ft-lb/inÂ²                     |                                            |
|                              | @Temperature 23.0<br>°C            | @Temperature 73.4 Â°F               | 80*10*4; ISO 180/1A                        |
| Izod Impact, Unnotched (ISO) | NB                                 | NB                                  |                                            |
|                              | @Temperature 23.0<br>°C            | @Temperature 73.4 Â°F               | 80*10*4; ISO 180/1U                        |
|                              | NB                                 | NB                                  |                                            |
|                              | @Temperature -30.0<br>°C           | @Temperature -22.0<br>°F            | 80*10*4; ISO 180/1U                        |
| Charpy Impact Unnotched      | NB                                 | NB                                  |                                            |
|                              | @Temperature 23.0<br>°C            | @Temperature 73.4 Â°F               | Edgew 80*10*4 sp=62mm; ISO 179/1eU         |
|                              | NB                                 | NB                                  |                                            |
|                              | @Temperature -30.0<br>°C           | @Temperature -22.0<br>°F            | Edgew 80*10*4 sp=62mm; ISO 179/1eU         |
| Charpy Impact, Notched       | 0.700 J/cmÂ²                       | 3.33 ft-lb/inÂ²                     |                                            |
|                              | @Temperature -30.0<br>°C           | @Temperature -22.0<br>°F            | ISO 179/2C                                 |
|                              | 1.00 J/cmÂ²                        | 4.76 ft-lb/inÂ²                     |                                            |
|                              | @Temperature -20.0<br>°C           | @Temperature -4.00<br>°F            | ISO 179/2C                                 |
|                              | 3.50 J/cmÂ²                        | 16.7 ft-lb/inÂ²                     |                                            |
|                              | @Temperature -30.0<br>°C           | @Temperature -22.0<br>°F            | V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA |
|                              | 4.50 J/cmÂ²                        | 21.4 ft-lb/inÂ²                     |                                            |
|                              | @Temperature 23.0<br>°C            | @Temperature 73.4 Â°F               | V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA |

| Mechanical Properties          | Metric                                          | English                                          | Comments            |
|--------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------|
|                                | 5.00 J/cm <sup>2</sup><br>@Temperature 23.0 Â°C | 22.8 lb/in <sup>2</sup><br>@Temperature 73.4 Â°F | ISO 179/2C          |
| Taber Abrasion, mg/1000 Cycles | 20<br>@Load 1.00 kg                             | 20<br>@Load 2.20 lb                              | CS-17; SABIC Method |

| Thermal Properties                          | Metric                                         | English                                         | Comments                                     |
|---------------------------------------------|------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| CTE, linear, Parallel to Flow               | 75.0 Âµm/m-Â°C<br>@Temperature 23.0 - 80.0 Â°C | 41.7 Âµin/in-Â°F<br>@Temperature 73.4 - 176 Â°F | ISO 11359-2                                  |
| CTE, linear, Transverse to Flow             | 80.0 Âµm/m-Â°C<br>@Temperature 23.0 - 80.0 Â°C | 44.4 Âµin/in-Â°F<br>@Temperature 73.4 - 176 Â°F | ISO 11359-2                                  |
| Thermal Conductivity                        | 0.180 W/m-K                                    | 1.25 BTU-in/hr-ftÂ²-Â°F                         | ISO 8302                                     |
| Deflection Temperature at 0.46 MPa (66 psi) | 125 Â°C                                        | 257 Â°F                                         | Edgew 120*10*4 sp=100mm; ISO 75/Be           |
| Deflection Temperature at 1.8 MPa (264 psi) | 105 Â°C                                        | 221 Â°F                                         | Edgew 120*10*4 sp=100mm; ISO 75/Ae           |
| Vicat Softening Point                       | 130 Â°C                                        | 266 Â°F                                         | Rate B/50; ISO 306                           |
|                                             | 135 Â°C                                        | 275 Â°F                                         | Rate B/120; ISO 306                          |
|                                             | 140 Â°C                                        | 284 Â°F                                         | Rate A/50; ISO 306                           |
| Flammability, UL94                          | HB<br>@Thickness 1.50 mm                       | HB<br>@Thickness 0.0591 in                      | UL 94 by SABIC-IP                            |
| Glow Wire Test                              | 750 Â°C<br>@Thickness 2.70 mm                  | 1380 Â°F<br>@Thickness 0.106 in                 | Glow Wire Flammability Index; IEC 60695-2-12 |

| Electrical Properties | Metric                           | English                          | Comments       |
|-----------------------|----------------------------------|----------------------------------|----------------|
| Volume Resistivity    | >= 1.00e+14 ohm-cm               | >= 1.00e+14 ohm-cm               | IEC 60093      |
| Surface Resistance    | >= 1.00e+15 ohm                  | >= 1.00e+15 ohm                  | ROA; IEC 60093 |
| Dielectric Constant   | 3.1<br>@Frequency 1.00e+6 Hz     | 3.1<br>@Frequency 1.00e+6 Hz     | IEC 60250      |
|                       | 3.3<br>@Frequency 50.0 - 60.0 Hz | 3.3<br>@Frequency 50.0 - 60.0 Hz | IEC 60250      |

| Electrical Properties      | Metric/mm                 | English/in                | Comments            |
|----------------------------|---------------------------|---------------------------|---------------------|
| Dielectric Strength        | @Thickness 3.20 mm        | @Thickness 0.126 in       | In oil, IEC 60243-1 |
| Dissipation Factor         | 0.0020                    | 0.0020                    | IEC 60250           |
|                            | @Frequency 50.0 - 60.0 Hz | @Frequency 50.0 - 60.0 Hz |                     |
|                            | 0.020                     | 0.020                     | IEC 60250           |
|                            | @Frequency 1.00e+6 Hz     | @Frequency 1.00e+6 Hz     |                     |
| Comparative Tracking Index | 600 V                     | 600 V                     | IEC 60112           |

| Descriptive Properties              | Value  | Comments       |
|-------------------------------------|--------|----------------|
| Ball Pressure Test, 125Â°C +/- 2Â°C | PASSES | IEC 60695-10-2 |

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