

## SABIC Innovative Plastics Valox® PDR4911 PBT (Asia Pacific)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Valox-PDR4911-PBT-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-PDR4911-PBT-Asia-Pacific.php)

| Physical Properties         | Metric                                      | English                                      | Comments     |
|-----------------------------|---------------------------------------------|----------------------------------------------|--------------|
| Specific Gravity            | 1.61 g/cc                                   | 1.61 g/cc                                    | ASTM D 792   |
| Water Absorption            | 0.070 %<br>@Time 86400 sec                  | 0.070 %<br>@Time 24.0 hour                   | ASTM D 570   |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0030 cm/cm<br>@Thickness 3.20 mm | 0.0010 - 0.0030 in/in<br>@Thickness 0.126 in | SABIC Method |
|                             | 0.0070 - 0.0090 cm/cm<br>@Thickness 6.40 mm | 0.0070 - 0.0090 in/in<br>@Thickness 0.252 in | SABIC Method |

| Mechanical Properties   | Metric                                | English                                | Comments             |
|-------------------------|---------------------------------------|----------------------------------------|----------------------|
| Hardness, Rockwell R    | 119                                   | 119                                    | ASTM D 785           |
| Tensile Strength, Yield | 116 MPa                               | 16800 psi                              | SABIC - Japan Method |
| Elongation at Break     | 3.0 %                                 | 3.0 %                                  | SABIC - Japan Method |
| Flexural Strength       | 169 MPa                               | 24500 psi                              | ASTM D 790           |
| Flexural Modulus        | 8.04 GPa                              | 1170 ksi                               | ASTM D 790           |
| Izod Impact, Notched    | 1.08 J/cm<br>@Temperature 23.0<br>Â°C | 2.02 ft-lb/in<br>@Temperature 73.4 Â°F | ASTM D 256           |

| Thermal Properties                             | Metric                                             | English                                              | Comments               |
|------------------------------------------------|----------------------------------------------------|------------------------------------------------------|------------------------|
| CTE, linear                                    | 30.0 Âµm/m-Â°C<br>@Temperature -30.0 -<br>30.0 Â°C | 16.7 Âµin/in-Â°F<br>@Temperature -22.0 -<br>86.0 Â°F | TMA                    |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 207 Â°C<br>@Thickness 3.20 mm                      | 405 Â°F<br>@Thickness 0.126 in                       | unannealed; ASTM D 648 |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 215 Â°C                                            | 419 Â°F                                              | unannealed; ASTM D 648 |

| Thermal Properties | @Thickness 3.20 mm<br>Metric | @Thickness 0.126 in<br>English | Comments |
|--------------------|------------------------------|--------------------------------|----------|
| Flammability, UL94 | V-0                          | V-0                            | UL 94    |
|                    | @Thickness 0.840 mm          | @Thickness 0.0331 in           |          |

| Electrical Properties | Metric                    | English                   | Comments                         |
|-----------------------|---------------------------|---------------------------|----------------------------------|
| Surface Resistance    | 1.00e+16 ohm              | 1.00e+16 ohm              | ASTM D 257                       |
| Dielectric Constant   | 3.8                       | 3.8                       | ASTM D 150                       |
|                       | @Frequency 50.0 - 60.0 Hz | @Frequency 50.0 - 60.0 Hz |                                  |
| Arc Resistance        | 60 - 120 sec              | 60 - 120 sec              | Tungsten, PLC code 6; ASTM D 495 |

## Contact Songhan Plastic Technology Co.,Ltd.

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