

**Pocan® DP7318 000000**  
**PBT-MX17**

Envalior

Injection Molding, 17% White Pigments, Low Warpage

ISO 1043 PBT-MX17

| Rheological properties     | Value | Unit      | Test Standard |
|----------------------------|-------|-----------|---------------|
| <b>ISO Data</b>            |       |           |               |
| Melt volume-flow rate, MVR | 27    | cm³/10min | ISO 1133      |
| Temperature                | 260   | °C        | -             |
| Load                       | 2.16  | kg        | -             |

| Mechanical Properties                | Value | Unit  | Test Standard |
|--------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                      |       |       |               |
| Tensile Modulus                      | 3400  | MPa   | ISO 527       |
| Stress at Break                      | 57    | MPa   | ISO 527       |
| Strain at Break                      | 10    | %     | ISO 527       |
| Impact Strength (Charpy), +23°C      | 125   | kJ/m² | ISO 179/1eU   |
| Flexural Modulus (23°C)              | 3200  | MPa   | ISO 178       |
| Notched Impact Strength (Izod), 23°C | 10    | kJ/m² | ISO 180/1A    |
| Impact Strength (Izod), 23°C         | 110   | kJ/m² | ISO 180/1U    |

| Thermal Properties                          | Value | Unit  | Test Standard  |
|---------------------------------------------|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Melting Temperature (10°C/min)              | 225   | °C    | ISO 11357-1/-3 |
| Temp. of deflection under load (0.45 MPa)   | 160   | °C    | ISO 75-1/-2    |
| Coeff. of Linear Therm. Expansion, parallel | 90    | E-6/K | ISO 11359-1/-2 |
| Coeff. of Linear Therm. Expansion, normal   | 90    | E-6/K | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm Nom. Thickn.       | HB    | class | UL 94          |
| Thickness tested                            | 1.5   | mm    | -              |

| Electrical Properties      | Value | Unit | Test Standard |
|----------------------------|-------|------|---------------|
| <b>ISO Data</b>            |       |      |               |
| Comparative tracking index | 425   | -    | IEC 60112     |

| Other Properties    | Value | Unit  | Test Standard  |
|---------------------|-------|-------|----------------|
| <b>ISO Data</b>     |       |       |                |
| Water Absorption    | 0.4   | %     | Sim. to ISO 62 |
| Humidity absorption | 0.2   | %     | Sim. to ISO 62 |
| Density             | 1500  | kg/m³ | ISO 1183       |
| Bulk density        | 900   | kg/m³ | -              |

| Material Specific Properties | Value | Unit  | Test Standard       |
|------------------------------|-------|-------|---------------------|
| <b>ISO Data</b>              |       |       |                     |
| Viscosity number             | 94    | cm³/g | ISO 307, 1157, 1628 |

| Test specimen production            | Value | Unit | Test Standard |
|-------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                     |       |      |               |
| Injection Molding, melt temperature | 260   | °C   | ISO 294       |
| Injection Molding, mold temperature | 80    | °C   | ISO 294       |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 120       | °C   | -             |
| Pre-drying - Time                           | 4 - 8     | h    | -             |
| Processing humidity                         | ≤0.02     | %    | -             |
| Melt temperature                            | 250 - 270 | °C   | -             |
| Mold temperature                            | 80 - 100  | °C   | -             |

**Characteristics**

**Pocan® DP7318 000000**

**PBT-MX17**

Envalior

**Processing**

Injection Molding

**Special Characteristics**

Heat aging stabilized

**Delivery form**

Pellets

**Features**

Light Blocking, Light Reflecting, Low Warpage

**Additives**

Release agent

**Injection Molding**

**PREPROCESSING**

Residual moisture content: 0.00 - 0.02 %

Drying temperature circulating air dryer: 120 °C

Drying time circulating air dryer: 4 - 8 h

**PROCESSING**

Melt temperature (Tmin - Tmax): 250 - 270 °C

Mold temperature: 80 - 100 °C