Polyplastics

TER Plastics POLYMER GROUP

TECHNICAL DATA SHEET

# DURACON® HP90X

Polyplastics

POM

***Special Characteristics***

Heat stabilized or stable to heat

***Chemical Resistance***

General chemical resistance, Grease resistance

| Processing/Physical Characteristics | Value | Unit | Standard |
|---|---|---|---|
| Melt volume-flow rate, MVR | 8 | cm³/10min | ISO 1133 |
| Temperature | 190 | °C | |
| Load | 2.16 | kg | |
| Melt flow index, MFI | 9 | g/10min | ISO 1133 |
| Temperature | 190 | °C | |
| Load | 2.16 | kg | |
| Molding shrinkage, parallel | 2.1 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 2.4 | % | ISO 294-4, 2577 |

| Mechanical Properties | Value | Unit | Standard |
|---|---|---|---|
| Tensile modulus | 2950 | MPa | ISO 527 |
| Tensile strength | 68 | MPa | ISO 527 |
| Nominal strain at break | 30 | % | ISO 527 |
| Poisson's ratio | 0.35 | | ISO 527 |
| Flexural modulus, 23°C | 2700 | MPa | ISO 178 |
| Flexural strength | 94 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 7 | kJ/m² | ISO 179/1eA |
| Rockwell hardness | M 90 | | ISO 2039-2 |

| Thermal Properties | Value | Unit | Standard |
|---|---|---|---|
| Temp. of deflection under load, 1.80 MPa | 100 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 110 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 110 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |
| Yellow card available | yes | | |

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| Electrical Properties | Value | Unit | Standard |
|---|---|---|---|
| Volume resistivity | 1E12 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | 1E16 | Ohm | IEC 62631-3-2 |
| Electric strength | 19 | kV/mm | IEC 60243-1 |

| Other Properties | Value | Unit | Standard |
|---|---|---|---|
| Density | 1410 | kg/m³ | ISO 1183 |