

## Chi Mei Polyrex® PH-888H Polystyrene - High Impact

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade , Polystyrene, Impact Modified

### Material Notes:

High FDI; high heat

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chi-Mei-Polyrex-PH-888H-Polystyrene-High-Impact.php](http://www.lookpolymers.com/polymer_Chi-Mei-Polyrex-PH-888H-Polystyrene-High-Impact.php)

| Physical Properties | Metric                                               | English                                              | Comments                               |
|---------------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------|
| Density             | 1.05 g/cc                                            | 0.0379 lb/in <sup>3</sup>                            | ISO 1183                               |
| Melt Flow           | 3.8 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 °C | 3.8 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 °F | Melt Volume Rate (ml/10 min); ISO 1133 |

| Mechanical Properties        | Metric                  | English                    | Comments                                            |
|------------------------------|-------------------------|----------------------------|-----------------------------------------------------|
| Ball Indentation Hardness    | 81.0 MPa                | 11700 psi                  | H358/30; ISO 2039-1                                 |
| Tensile Strength at Break    | 30.0 MPa                | 4350 psi                   | 50 mm/min; ISO 527                                  |
| Tensile Strength, Yield      | 30.0 MPa                | 4350 psi                   | 50 mm/min; ISO 527                                  |
| Elongation at Break          | 58 %                    | 58 %                       | 50 mm/min; ISO 527                                  |
| Flexural Strength            | 39.0 MPa                | 5660 psi                   | 2 mm/min; ISO 178                                   |
| Flexural Modulus             | 1.50 GPa                | 218 ksi                    | 2 mm/min; ISO 178                                   |
| Izod Impact, Notched (ISO)   | 8.00 kJ/m <sup>2</sup>  | 3.81 ft-lb/in <sup>2</sup> | ISO 180/1A                                          |
| Izod Impact, Unnotched (ISO) | NB                      | NB                         | ISO 180/1C                                          |
| Charpy Impact Unnotched      | NB                      | NB                         | ISO 179                                             |
| Charpy Impact, Notched       | 0.900 J/cm <sup>2</sup> | 4.28 ft-lb/in <sup>2</sup> | ISO 179                                             |
| Impact                       | 8.00                    | 8.00                       | Impact Flexural Test Notched (KJ/m <sup>2</sup> )   |
|                              | 90.0                    | 90.0                       | Impact Flexural Test Unnotched (KJ/m <sup>2</sup> ) |

| Thermal Properties                          | Metric  | English | Comments           |
|---------------------------------------------|---------|---------|--------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 77.0 °C | 171 °F  | unannealed; ISO 75 |
|                                             | 96.0 °C | 205 °F  | annealed; ISO 75   |
| Vicat Softening Point                       | 92.0 °C | 198 °F  | 50°C/hr; ISO 306   |

| Thermal Properties | @Load 5.00 kg<br>Metric | @Load 11.0 lb<br>English | Comments          |
|--------------------|-------------------------|--------------------------|-------------------|
|                    | 95.0 °C                 | 203 °F                   | 120°C/hr; ISO 306 |
|                    | @Load 5.00 kg           | @Load 11.0 lb            |                   |
|                    | 102 °C                  | 216 °F                   | 50°C/hr; ISO 306  |
|                    | @Load 1.00 kg           | @Load 2.20 lb            |                   |
|                    | 107 °C                  | 225 °F                   | 120°C/hr; ISO 306 |
|                    | @Load 1.00 kg           | @Load 2.20 lb            |                   |
| Flammability, UL94 | HB                      | HB                       | UL 94             |
|                    | @Thickness 1.59 mm      | @Thickness 0.0625 in     |                   |

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