

## Chosun Refractories PT-140 Plastic Refractory

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

Information provided by Chosun Refractories via Korea Institute of Ceramic Engineering and Technology (KICET).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chosun-Refractories-PT-140-Plastic-Refractory.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-PT-140-Plastic-Refractory.php)

| Mechanical Properties | Metric                               | English                              | Comments               |
|-----------------------|--------------------------------------|--------------------------------------|------------------------|
| Modulus of Rupture    | 3.37e-7 - 0.000491 GPa               | 0.0000489 - 0.0711 ksi               |                        |
|                       | @Temperature 110 °C, Time 86400 sec  | @Temperature 230 °F, Time 24.0 hour  |                        |
|                       | 0.002943 - 0.005886 GPa              | 0.4269 - 0.8537 ksi                  |                        |
|                       | @Temperature 1350 °C, Time 10800 sec | @Temperature 2460 °F, Time 3.00 hour |                        |
| Compressive Strength  | 2.94 - 7.85 MPa                      | 427 - 1140 psi                       | Cold Crushing Strength |
|                       | @Temperature 110 °C, Time 86400 sec  | @Temperature 230 °F, Time 24.0 hour  |                        |
|                       | 14.7 - 24.5 MPa                      | 2130 - 3560 psi                      | Cold Crushing Strength |
|                       | @Temperature 1350 °C, Time 10800 sec | @Temperature 2460 °F, Time 3.00 hour |                        |

| Thermal Properties               | Metric                               | English                              | Comments |
|----------------------------------|--------------------------------------|--------------------------------------|----------|
| Thermal Conductivity             | 0.94215 W/m-K                        | 6.5280 BTU-in/hr-ft <sup>2</sup> -°F |          |
|                                  | @Temperature 500 °C                  | @Temperature 932 °F                  |          |
|                                  | 1.0352 W/m-K                         | 7.1727 BTU-in/hr-ft <sup>2</sup> -°F |          |
|                                  | @Temperature 1000 °C                 | @Temperature 1830 °F                 |          |
| Maximum Service Temperature, Air | 1400 °C                              | 2550 °F                              | limited  |
| Shrinkage                        | -1.20 %                              | -1.20 %                              |          |
|                                  | @Temperature 1350 °C, Time 10800 sec | @Temperature 2460 °F, Time 3.00 hour |          |
|                                  | -0.700 %                             | -0.700 %                             |          |
|                                  | @Temperature 110 °C, Time 86400 sec  | @Temperature 230 °F, Time 24.0 hour  |          |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Al2O3                         | 35 %   | 35 %    |          |
| SiO2                          | 56 %   | 56 %    |          |

| Descriptive Properties                  | Value           | Comments |
|-----------------------------------------|-----------------|----------|
| Main Applications                       | Various furnace |          |
| Material Required for Estimating (kg/?) | 2,300           |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China