

## Lucite International Diakon® TD525 Toughened Acrylic Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

### Material Notes:

The Diakon® impact PMMA series offer the best combination of impact, chemical and heat resistance and provide rigidity and surface hardness. The grades in the Diakon® series can be processed by injection molding or extrusion. Information provided by Lucite International

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lucite-International-Diakon-TD525-Toughened-Acrylic-Compound.php](http://www.lookpolymers.com/polymer_Lucite-International-Diakon-TD525-Toughened-Acrylic-Compound.php)

| Physical Properties   | Metric                | English                   | Comments |
|-----------------------|-----------------------|---------------------------|----------|
| Density               | 1.16 g/cc             | 0.0419 lb/in <sup>3</sup> | ISO 1183 |
| Water Absorption      | 0.30 %                | 0.30 %                    | ISO 62   |
| Linear Mold Shrinkage | 0.0040 - 0.0080 cm/cm | 0.0040 - 0.0080 in/in     |          |
| Melt Flow             | 1.9 g/10 min          | 1.9 g/10 min              | ISO 1133 |

| Mechanical Properties      | Metric                  | English                    | Comments    |
|----------------------------|-------------------------|----------------------------|-------------|
| Hardness, Rockwell M       | 60                      | 60                         | ISO 2039-2  |
| Tensile Strength           | 58.0 MPa                | 8410 psi                   | ISO 527     |
| Elongation at Break        | 20 %                    | 20 %                       | ISO 527     |
| Flexural Modulus           | 2.40 GPa                | 348 ksi                    | ISO 178     |
| Izod Impact, Notched (ISO) | 3.20 kJ/m <sup>2</sup>  | 1.52 ft-lb/in <sup>2</sup> | ISO 180/1A  |
| Charpy Impact, Notched     | 0.350 J/cm <sup>2</sup> | 1.67 ft-lb/in <sup>2</sup> | ISO 179/1eA |
|                            | 3.80 J/cm <sup>2</sup>  | 18.1 ft-lb/in <sup>2</sup> | ISO 179/1eU |

| Thermal Properties          | Metric        | English          | Comments    |
|-----------------------------|---------------|------------------|-------------|
| CTE, linear                 | 103 Åµm/m-Å°C | 57.2 Åµin/in-Å°F | ASTM E831   |
| Vicat Softening Point       | 101 Å°C       | 214 Å°F          | ISO 306B    |
|                             | 111 Å°C       | 232 Å°F          | ISO 306A    |
| Heat Distortion Temperature | 92.0 Å°C      | 198 Å°F          | ISO 75A     |
| Flammability, UL94          | HB            | HB               |             |
| Glow Wire Test              | 650 Å°C       | 1200 Å°F         | IEC 695-2-1 |

| Optical Properties    | Metric | English | Comments   |
|-----------------------|--------|---------|------------|
| Refractive Index      | 1.49   | 1.49    | ISO 489    |
| Haze                  | 2.0 %  | 2.0 %   | ASTM D1003 |
| Transmission, Visible | 90 %   | 90 %    | ASTM D1003 |

## 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