

## LyondellBasell Hifax<sup>®</sup>,<sup>ç</sup> CB259 Thermoplastic Polyolefin Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO) , Polyolefin

### Material Notes:

Description: Hifax<sup>®</sup>,<sup>ç</sup> CB259 medium high melt flow, 1,600 MPa flexural modulus, low CLTE, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has a very good balance of impact resistance, rigidity and dimensional stability. It was designed for exterior ornamentation applications requiring stiffness and low thermal expansion characteristics. Uses: Automotive exterior parts  
Information provided by Basell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Hifax-CB259-Thermoplastic-Polyolefin-Elastomer.php](http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CB259-Thermoplastic-Polyolefin-Elastomer.php)

| Physical Properties | Metric  | English   | Comments                |
|---------------------|---|---|-------------------------|
| Density             | 1.11 g/cc   | 0.0401 lb/in <sup>3</sup>                           | ISO 1183                |
| Melt Flow           | 13 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 13 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | Condition L; ASTM D1238 |

| Mechanical Properties      | Metric   | English  | Comments   |
|----------------------------|--|--|--|
| Hardness, Rockwell R       | 55   | 55   | ISO 2039-2   |
| Hardness, Shore D          | 69   | 69   | ISO 868  |
| Tensile Strength at Break  | 15.0 MPa   | 2180 psi   | ISO 527-1, -2  |
| Tensile Strength, Yield    | 18.0 MPa   | 2610 psi   | ISO 527-1, -2  |
| Elongation at Break        | 450 %  | 450 %  | ISO 527-1, -2  |
| Elongation at Yield        | 8.0 %  | 8.0 %  | ISO 527-1, -2  |
| Flexural Modulus           | 1.60 GPa   | 232 ksi  | ISO 178  |
| Izod Impact, Notched (ISO) | 3.00 kJ/m <sup>2</sup><br>@Temperature -40.0<br>°C | 1.43 ft-lb/in <sup>2</sup><br>@Temperature -40.0<br>°F | ISO 180  |
|                            | 33.0 kJ/m <sup>2</sup><br>@Temperature 23.0<br>°C  | 15.7 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F     | ISO 180  |
| Dart Drop, Total Energy    | 21.0 J<br>@Temperature -15.0<br>°C                 | 15.5 ft-lb<br>@Temperature 5.00 °F                     | Instrumented Energy at Maximum Load, Ductile Failure; ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties                             | Metric<br>19.0 Åm/m-Å°C                           | English<br>27.2 Åin/in-Å°F                         | Comments                                    |
|--|---|--|---|
| CTE, linear                                    | @Temperature -30.0 -<br>100 Å°C                   | @Temperature -22.0 -<br>212 Å°F                    | ASTM D696                                   |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 93.9 Å°C  | 201 Å°F  | Unannealed; ISO 75B-1, -2                   |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 52.8 Å°C  | 127 Å°F  | Unannealed; ISO 75A-1, -2                   |
| Shrinkage                                      | 0.50 %  | 0.50 %   | Tool, 100x150x3.2 mm; Basell Test<br>Method |
|  | 0.800 %<br>@Temperature 121 Å°C,<br>Time 3600 sec | 0.800 %<br>@Temperature 250 Å°F,<br>Time 1.00 hour | Afterbake, 100x150x3.2 mm; Basell<br>Method |

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