

## LyondellBasell Hifaxâ„¢ CA287AHF Thermoplastic Polyolefin Elastomer

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

### Material Notes:

Description: Hifax â„¢ CA287AHF is a thermoplastic polyolefin elastomer suitable for automotive exterior partsFeatures: Good

StiffnessGood ProcessabilityGood Impact ResistanceGood Colorability PaintableMedium FlowDurableInformation provided by Basell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Hifax-CA287AHF-Thermoplastic-Polyolefin-Elastomer.php](http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CA287AHF-Thermoplastic-Polyolefin-Elastomer.php)

| Physical Properties | Metric                                               | English                                              | Comments                |
|---------------------|------------------------------------------------------|------------------------------------------------------|-------------------------|
| Density             | 0.890 g/cc                                           | 0.0322 lb/in <sup>3</sup>                            | ISO 1183                |
| Melt Flow           | 10 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 Â°C | 10 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 Â°F | Condition L; ASTM D1238 |

| Mechanical Properties      | Metric                                              | English                                                 | Comments                 |
|----------------------------|-----------------------------------------------------|---------------------------------------------------------|--------------------------|
| Hardness, Shore D          | 62                                                  | 62                                                      | ISO 868                  |
| Tensile Strength at Break  | 14.0 MPa                                            | 2030 psi                                                | ISO 527-1, -2            |
| Tensile Strength, Yield    | 17.0 MPa                                            | 2470 psi                                                | ISO 527-1, -2            |
| Elongation at Break        | 500 %                                               | 500 %                                                   | ISO 527-1, -2            |
| Elongation at Yield        | 13 %                                                | 13 %                                                    | ISO 527-1, -2            |
| Flexural Modulus           | 0.820 GPa                                           | 119 ksi                                                 | ISO 178                  |
| Izod Impact, Notched (ISO) | 8.00 kJ/m <sup>2</sup><br>@Temperature -40.0<br>Â°C | 3.81 ft-lb/in <sup>2</sup><br>@Temperature -40.0<br>Â°F | ISO 180                  |
|                            | 51.0 kJ/m <sup>2</sup><br>@Temperature 10.0<br>Â°C  | 24.3 ft-lb/in <sup>2</sup><br>@Temperature 50.0 Â°F     | ISO 180                  |
|                            | 52.0 kJ/m <sup>2</sup><br>@Temperature 23.0<br>Â°C  | 24.7 ft-lb/in <sup>2</sup><br>@Temperature 73.4 Â°F     | ISO 180                  |
| Dart Drop, Total Energy    | 23.0 J<br>@Temperature -30.0<br>Â°C                 | 17.0 ft-lb<br>@Temperature -22.0<br>Â°F                 | Instrumented; ASTM D3763 |

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

| Thermal Properties<br><i>CTE, linear</i>       | 100 Åum/m-Å°C<br>Metric                              | 55.6 Åuin/in-Å°F<br>English                           | Comments<br><i>ASTM D696</i>                |
|------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|---------------------------------------------|
|                                                | @Temperature -30.0 -<br>100 Å°C                      | @Temperature -22.0 -<br>212 Å°F                       |                                             |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 80.0 Å°C                                             | 176 Å°F                                               | Unannealed; ISO 75B-1, -2                   |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 50.0 Å°C                                             | 122 Å°F                                               | Unannealed; ISO 75A-1, -2                   |
| Shrinkage                                      | 1.2 %                                                | 1.2 %                                                 | Tool, 100x150x3.2 mm; Basell Test<br>Method |
|                                                | 1.60 %<br><br>@Temperature 121 Å°C,<br>Time 3600 sec | 1.60 %<br><br>@Temperature 250 Å°F,<br>Time 1.00 hour | Afterbake, 100x150x3.2 mm; Basell<br>Method |

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