

LyondellBasell Hifax,ç AB220GC/1 Thermoplastic Olefin Resin

Category : Polymer , Thermoplastic

Material Notes:

Key Features: fractional melt flow, high modulus, UV-stabilized, extrusion grade thermoplastic olefin resin, high flexural modulus, high impact strength, good weatherability, good processability
Applications: extruded profiles and luggage rack inserts
Description: Hifax AB220GC/1 fraction melt flow, UV-stabilized mineral-filled, extrusion grade thermoplastic olefin resin has an excellent balance of stiffness, impact strength, weather resistance and processability. It was designed primarily for extruded automotive exterior profile applications. Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-AB220GC1-Thermoplastic-Olefin-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|---------------|
| Density | 1.03 g/cc | 0.0372 lb/in ³ | ASTM D792B |
| Linear Mold Shrinkage | 0.0090 cm/cm | 0.0090 in/in | Tool, Montell |
| Melt Flow | 0.50 g/10 min @Load 2.16 kg, Temperature 230 °C | 0.50 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------------------|--|--|
| Hardness, Shore D | 67 | 67 | ASTM D2440 |
| Tensile Strength, Yield | 23.0 MPa | 3340 psi | ASTM D638 |
| Elongation at Break | 500 % | 500 % | ASTM D638 |
| Flexural Modulus | 1.40 GPa | 203 ksi | Tangent at 0.05 in/min; ASTM D790A |
| Gardner Impact | 24.0 J @Temperature -30.0 °C | 17.7 ft-lb @Temperature -22.0 °F | ASTM D3029 |
| Impact Test | 24.0 J @Temperature -30.0 °C | 17.7 ft-lb @Temperature -22.0 °F | Dynatup Impact, E at Max Load, Ductile; ASTM D3763 |
| Tear Strength | 160 kN/m | 913 pli | ASTM D624 |

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