

AP6112-HS

Impact Copolymer for Injection Molding

Features: Good stiffness/impact balance. Produced without animal derived components

Applications: Appliance components and furniture

Resin Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---------------------|------------------------|-------------------------|------------------|
| Melt Flow Rate | 12 g/10min | | D1238 |
| Density | 0.90 g/cm ³ | | D1505 |
| Melting Temperature | 160 -165 °C | 320 – 329 °F | D3418 |

Mechanical Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---|--------------------|-------------------------|------------------|
| Tensile Yield Strength | 24 MPa | 3550 psi | D 638 |
| Tensile Yield Elongation | 6 % | 6 % | D 638 |
| Flexural Modulus - Tangent | 1240 MPa | 180 kpsi | D 790 |
| Flexural Modulus - Secant | 1172 MPa | 170 kpsi | D 790 |
| Deflection Temperature @66psi (0.455 MPa) | 99 °C | 199 °F | D 648 |
| Rockwell Hardness | | 98 R | D 785 |
| Notched Izod @ 23°C | 123 J/m | 2.3 ft-lb/in | D 256 |
| Gardner Impact @ -30°C | 23 J | 200 in-lb | D 5420 |

Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

USP <88> Class VI

Drug Master File listed

UL Certified 94HB

118 Huntsman Way, Longview, TX 75602 – (903) 239-5332

The data and information represented herein refer to typical values obtained in our laboratories by the methods or apparatuses indicated and should be so considered. Since processing variables are a major factor in product performance, this information should serve only as a guide. Since customers' testing conditions are outside our control, the reproducibility of our data in a customer's testing facility is not guaranteed. Customer should confirm results under its testing conditions. There is no implied warranty of merchantability or fitness for a particular purpose. Establishing satisfactory performance of the product for the intended application is the customer's sole responsibility. No warranty is given concerning the existence or non-existence of any patents claiming any pertinent subject matter presented herein. The Company assumes no obligation, express or implied, or liability for use of or reliance on the information and data presented. FHR disclaims all product warranties expressed or implied, including warranties of fitness for particular purpose or of merchantability. Further, this product is not intended for use in the manufacture of any form of implanted medical or surgical device. © 2020 Flint Hills Resources. All rights reserved.