



### VinPol™ PC110UR

Injection Molding Grade Polycarbonate

Melt Flow: 11.5

Water Clear or Blue Tint

**VINPOL PC110UR** is a natural color, polycarbonate resin designed for injection molding applications. It contains UV protective and mold release additives. It is FDA compliant to 21 CFR 177.1580. Water clear and blue tint variants are available.

| Resin Property                          | Typical Value   | Units    | Test Method |
|-----------------------------------------|-----------------|----------|-------------|
| Melt Flow, 1.2kg @ 300°C                | 11.5            | g/10 min | ASTM D-1238 |
| Specific Gravity                        | 1.2             | -        | ASTM D-792  |
| Mold Shrinkage, (MD/TD) flow, 3.2mm     | 0.5-0.7/0.5-0.7 | %        | ASTM D-955  |
| Tensile Strength at Yield, 50 mm/min    | 63              | MPa      | ASTM D-638  |
| Tensile Strain at Break, yld, 50 mm/min | 110             | %        | ASTM D-638  |
| Tensile Strength at Break, 50 mm/min    | 64              | MPa      | ASTM D-638  |
| Tensile Modulus, 50 mm/min              | 2,000           | MPa      | ASTM D-638  |
| Flexural Strength, 2.8 mm/min           | 90              | MPa      | ASTM D-790  |
| Flexural Modulus, 2.8 mm/min            | 2,300           | MPa      | ASTM D-790  |
| Izod Impact, notched, 23°C, 1/4"        | 150             | J/m      | ASTM D-256  |
| Izod Impact, notched, 23°C, 1/8"        | 850             | J/m      | ASTM D-256  |
| Rockwell Hardness                       | 120             | R Scale  | ASTM D-785  |
| Vicat Softening Temp, B/50              | 145             | °C       | ISO 306     |
| HDT, 18.56 kgf/cm², 6.4mm               | 135             | °C       | ASTM D-648  |
| HDT, 4.6 kgf/cm², 6.4mm                 | 140             | °C       | ASTM D-648  |
| Flammability, V2                        | 0.75-3.0        | mm       | UL 94       |

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.

Vinmar Polymers America, LLC / 16825 Northchase Drive, Suite 1400, Houston, TX 77060  
Phone: 281-902-0900 Fax: 281-260-8096

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