

# BIOLLOY KH420

Polylactic Acid + ABS

Techno Polymer Co, Ltd.

Message:

BIOLLOY KH420 is a Polylactic Acid + ABS (PLA+ABS) product. It is available in Asia Pacific or North America.

Characteristics include:

Flame Rated

Eco-Friendly/Green

Heat Resistant

| General Information                       |                            |          |             |
|-------------------------------------------|----------------------------|----------|-------------|
| Features                                  | Medium Heat Resistance     |          |             |
|                                           | Renewable Resource Content |          |             |
| UL File Number                            | E54297                     |          |             |
| Physical                                  | Nominal Value              | Unit     | Test Method |
| Density                                   | 1.17                       | g/cm³    | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 20                         | g/10 min | ISO 1133    |
| Molding Shrinkage                         | 0.50 to 0.80               | %        | ISO 294-4   |
| Hardness                                  | Nominal Value              | Unit     | Test Method |
| Rockwell Hardness (R-Scale)               | 118                        |          | ISO 2039-2  |
| Mechanical                                | Nominal Value              | Unit     | Test Method |
| Tensile Stress (Yield)                    | 63.0                       | MPa      | ISO 527-2   |
| Flexural Modulus                          | 2840                       | MPa      | ISO 178     |
| Flexural Stress                           | 95.0                       | MPa      | ISO 178     |
| Impact                                    | Nominal Value              | Unit     | Test Method |
| Charpy Notched Impact Strength            | 17                         | kJ/m²    | ISO 179     |
| Thermal                                   | Nominal Value              | Unit     | Test Method |
| Heat Deflection Temperature               |                            |          |             |
| 0.45 MPa, Unannealed                      | 106                        | °C       | ISO 75-2/B  |
| 1.8 MPa, Unannealed                       | 78.0                       | °C       | ISO 75-2/A  |
| Flammability                              | Nominal Value              |          | Test Method |
| Flame Rating (ALL)                        | HB                         |          | UL 94       |
| Injection                                 | Nominal Value              | Unit     |             |
| Drying Temperature                        | 80.0                       | °C       |             |
| Rear Temperature                          | 190 to 260                 | °C       |             |
| Middle Temperature                        | 190 to 260                 | °C       |             |
| Front Temperature                         | 190 to 260                 | °C       |             |
| Mold Temperature                          | 40.0 to 80.0               | °C       |             |

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