

HIPRENE HLG74BE

HiPrene

© HLG74BE is polypropylene with 40% long glass fibers. The fibers are chemically coupled to polypropylene matrix. Pellets are cylindrical and usual length of embedded fibers is 10mm. This material combines excellent strength and stiffness with perfect impact resistance at low temperatures also. This grade is available in black color.

| | Properties | Test condition | Method | Unit | Value |
|------------|--------------------------------|----------------|-------------|-------------------|-------|
| Impact | Notched Charpy Impact Strength | 23°C | ISO 179/1eA | KJ/m ² | 25 |
| Hardness | Rockwell Hardness | R-Scale | ISO 2039 | | 102 |
| Physical | Specific Gravity | | ISO 1183 | g/cm ³ | 1,21 |
| | Volatile Matters | | GS Method | % | 0,12 |
| Thermal | Ash Content | 600°C | ISO 3451 | % | 40 |
| | Head Deflection Temperature B | | ISO 75-2/B | °C | 160 |
| Mechanical | Tensile Stress at Yield | | ISO 527-2 | MPa | 130 |
| | Tensile Strain at Break | | ISO 527-2 | % | 4 |
| | Flexural Modulus ¹ | 23°C / 2mm/min | ISO 178 | MPa | 9000 |