

Typical Properties for SKYPET® HR

•Injection Molded Property (ASTM Method)

| Property | Test Method | Unit | Typical Values |
|--|---|---------------------------------|---------------------|
| <i>Physical & Mechanical</i> | | | |
| Specific Gravity | ASTM D792 | - | 1.3 |
| Rockwell Hardness | ASTM D785 | R-scale | 105 |
| Mold Shrinkage, 3.2mm | ASTM D955 | % | 0.3 – 0.6 |
| DEG Content | SK Method | Wt% | 1.2 |
| Acid Number (Carboxyl end group content) | SK Method | Meq/kg | 33 |
| <i>Mechanical</i> | | | |
| Tensile Strength @ Yield 50mm/min (2 inch/min) | ASTM D638 | Mpa (kgf/cm²) | 50 (510) |
| Tensile Strength @ Break 50mm/min (2 inch/min) | ASTM D638 | Mpa (kgf/cm²) | 25 (260) |
| Elongation @ Yield 50mm/min (2 inch/min) | ASTM D638 | % | 4.5 |
| Elongation @ Break 50mm/min (2 inch/min) | ASTM D638 | % | >50 |
| Flexural Strength 1.27mm/min (0.05 inch/min) | ASTM D638 | Mpa (kgf/cm²) | 83 (850) |
| Flexural Modulus 1.27mm/min (0.05 inch/min) | ASTM D638 | Mpa (kgf/cm²) | 2500 (25400) |
| Izod Impact Strength, Notched @ 23 °C | ASTM D638 | J/m | 38 |
| Izod Impact Strength, Notched @ -40 °C | ASTM D638 | J/m | 27 |
| <i>Thermal</i> | | | |
| Heat Distortion Temperature @ 0.455 Mpa (66psi) | ASTM D638 | °C | 69 |
| Glass Transition Temperature | DSC Method (Scan rate 10°C/min) | °C | 80 |
| <i>Optical</i> | | | |
| Color-L (for crystalline pellets) | ASTM D1003 | % | > 89 |

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The information in this data sheet is, to the best of our knowledge, true and accurate. The representations about the product are based upon test results achieved under laboratory practices supervised and controlled by SK chemicals corporation.