

## Technical Data Sheet

### Softell™ TKG 2039N NA C12A19 Soul



Polypropylene Compounds

#### Product Description

Softell™ TKG 2039N NA C12A19 Soul is a 25% glass fiber reinforced PP copolymer, with high UV resistance, very good soft touch haptics, high flowability, high dimensional stability and very high scratch resistance. The product is available in pellet form. Material shows low shrinkage and has a very low warpage tendency.

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Application       | Instrument Panels; Interior Trims                                                  |
| Market            | Automotive                                                                         |
| Processing Method | Injection Molding                                                                  |
| Attribute         | Good Dimensional Stability; Good UV Resistance; High Flow; Scratch Resistant; Soft |

| Typical Properties                                           | Nominal Value | Units             | Test Method   |
|--------------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                              |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                             | 12            | g/10 min          | ISO 1133-1    |
| Density, (23 °C)                                             | 1.08          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                            |               |                   |               |
| Flexural Modulus, (23 °C)                                    | 2900          | MPa               | ISO 178       |
| Tensile Stress at Yield, (23 °C)                             | 44            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Yield, (23 °C)                             | 11            | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                                |               |                   |               |
| Charpy Impact Strength - Notched                             |               |                   |               |
| (23 °C)                                                      | 40            | kJ/m <sup>2</sup> | ISO 179       |
| (-30 °C)                                                     | 11            | kJ/m <sup>2</sup> | ISO 179       |
| <b>Thermal</b>                                               |               |                   |               |
| Deflection Temperature Under Load                            |               |                   |               |
| (0.45 MPa, Unannealed)                                       | 142           | °C                | ISO 75A-1, -2 |
| (1.80 MPa, Unannealed)                                       | 96            | °C                | ISO 75B-1, -2 |
| <b>Additional Information</b>                                |               |                   |               |
| Mold Shrinkage                                               |               |                   | ISO 294-4     |
| Please contact LyondellBasell for shrinkage recommendations. |               |                   |               |