

# Polyfort FPP 1006U-2146 GREYGRY

LyondellBasell Industries - Polypropylene Homopolymer

## General Information

### Product Description

20% talc filled PP Homo Compound, UV stabilized

### General

|                        |                              |
|------------------------|------------------------------|
| Filler / Reinforcement | • Talc, 20% Filler by Weight |
| Additive               | • UV Stabilizer              |
| Features               | • UV Stabilized              |
| Appearance             | • Colors Available           |
| Processing Method      | • Injection Molding          |
| Resin ID               | • PP T20 UV                  |

## Properties<sup>1</sup>

| Physical   | Nominal Value | Unit                   | Test Method     |
|--|---------------|------------------------|-----------------|
| Density  | 1.05          | g/cm <sup>3</sup>      | ISO 1183/A      |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)              | 14            | cm <sup>3</sup> /10min | ISO 1133        |
| Mechanical   | Nominal Value | Unit                   | Test Method     |
| Tensile Modulus  | 377000        | psi                    | ISO 527-1/1A/1  |
| Tensile Stress (Yield)                                   | 4060          | psi                    | ISO 527-2/1A/50 |
| Tensile Strain (Yield)                                   | 5.0           | %                      | ISO 527-2/1A/50 |
| Flexural Modulus <sup>2</sup>                            | 421000        | psi                    | ISO 178         |
| Flexural Stress <sup>2</sup>                             |               |                        | ISO 178         |
| 3.5% Strain  | 6530          | psi                    |                 |
| 5.8% Strain  | 7250          | psi                    |                 |
| Impact   | Nominal Value | Unit                   | Test Method     |
| Charpy Notched Impact Strength (73°F)                    | 1.0           | ft-lb/in <sup>2</sup>  | ISO 179/1eA     |
| Charpy Unnotched Impact Strength (73°F)                  | 15            | ft-lb/in <sup>2</sup>  | ISO 179/1eU     |
| Notched Izod Impact Strength (73°F)                      | 1.1           | ft-lb/in <sup>2</sup>  | ISO 180/1A      |
| Unnotched Izod Impact Strength (73°F)                    | 11            | ft-lb/in <sup>2</sup>  | ISO 180/1U      |
| Thermal  | Nominal Value | Unit                   | Test Method     |
| Deflection Temperature Under Load (66 psi, Unannealed)   | 253           | °F                     | ISO 75-2/Bf     |
| Deflection Temperature Under Load<br>264 psi, Unannealed | 149           | °F                     | ISO 75-2/Af     |
| Vicat Softening Temperature                              |               |                        |                 |
| --   | 199           | °F                     | ISO 306/B50     |
| --   | 306           | °F                     | ISO 306/A50     |
| Flammability   | Nominal Value | Unit                   | Test Method     |
| Burning Rate   |               |                        |                 |
| 0.0787 in  | 1.7           | in/min                 | FMVSS 302       |
| 0.0787 in  | 1.7           | in/min                 | ISO 3795        |

## Processing Information

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 176           | °F   |
| Drying Time        | 2.0 to 3.0    | hr   |

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| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Processing (Melt) Temp | 428 to 500    | °F   |
| Mold Temperature       | 86 to 140     | °F   |
| Injection Rate         | Moderate-Fast |      |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min