

Technical Data Sheet

Polyfort FPP 1006U-2146 GREYGRY



Polypropylene, Homopolymer

Product Description

20% talc filled PP Homo Compound, UV stabilized

Regulatory Status

For regulatory compliance information, see Polyfort FPP 1006U-2146 GREYGRY [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe; North America
Processing Method	Injection Molding
Attribute	UV Stabilized
Appearance	Colors Available
Filler/Reinforcement	Talc, 20%
Resin ID	PP T20 UV

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	14	cm ³ /10 min	ISO 1133
Density, (Method A)	1.05	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	28.0	MPa	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2900	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	5.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2600	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	45.0	MPa	ISO 178
(2.0 mm/min, 5.8%)	50.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	2.1	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	32	kJ/m ²	ISO 179
Notched Izod Impact Strength, (23 °C, Type 1, Notch A)	2.3	kJ/m ²	ISO 180
Unnotched Izod Impact Strength, (23 °C, Type 1)	24	kJ/m ²	ISO 180
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	93.0	°C	ISO 306
(A (10N), 50 °C/h)	152	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	123	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	65.0	°C	ISO 75-2/A
Flammable			

Burning Rate

(2.00 mm)

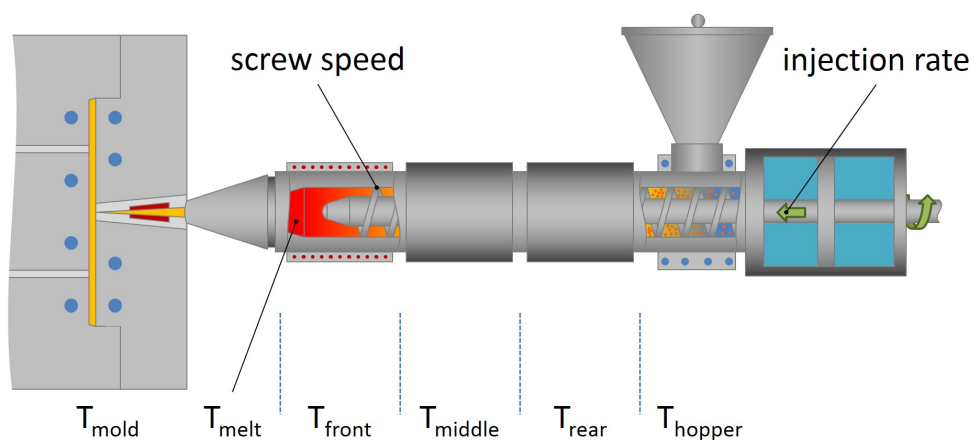
43 mm/min

FMVSS 302

(2.00 mm)

43 mm/min

ISO 3795



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Injection Rate	Moderate-Fast	
Mold Temperature	30 to 60	°C

Notes

These are typical property values not to be construed as specification limits. The typical values for this product may have been tested on a natural grade.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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