

## TDS Polyfort<sup>™</sup> FPP 22 T LE K1684

Polypropylene Homopolymer

#### **Product**

22% talc filled and head stabilized PP-Homopolymer with low emission

### General

Material Status Commercial: Active

Availability Africa & Middle East Asia Pacific Europe

Latin America North America

Filler / Reinforcement Mineral, 22% Filler by Weight

Features Heat Stabilized Low Emissions

Automotive Specifications GM QK 003811 Color: 71.625 Black

Processing Method Injection Molding

Physical	Nominal Value (English) No	minal Value (SI)	Test Method
Density	1.06 g/cm <sup>3</sup>	1.06 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.732 in <sup>3</sup> /10min	12.0 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	4350 psi	30.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	6.0 %	6.0 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.9 ft·lb/in²	4.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F (23°C)	19 ft·lb/in²	40 kJ/m²	ISO 179/1eU

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Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	10900 psi	75.0 MPa	ISO 2039-1
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Thermal	Nominal Value (English)	Nominal value (SI)	Test Method
Heat Deflection Temperature	0.4005	10000	100 75 0/Df
66 psi (0.45 MPa), Unannealed	248°F	120°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	158°F	70.0°C	ISO 75-2/Af
Vicat Softening Temperature	00.405	45400	100 000 /4 50
	304°F	151°C	ISO 306/A50
	201°F	94.0°C	ISO 306/B50
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·cm	> 1.0E+13 ohms·cn	nIEC 60093
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate	<3.1 in/min	<80 mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	НВ	НВ	
0.12 in (3.0 mm)	НВ	НВ	

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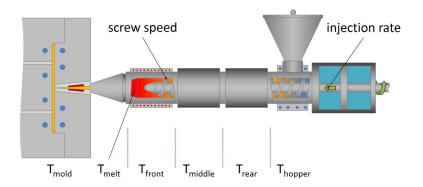


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## Additional Information

- 1) Not for use in food contact applications
- 2) Not for use in medical or pharmaceutical applications



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176°F	80°C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Regrind	20%	20%
Processing (Melt) Temp	446 to 518°F	230 to 270°C
Mold Temperature	104 to 158°F	40 to 70°C

### Injection Notes

Low Emission grades are sensitive for shear-stress. Processing parameters determine the emission- and odor properties of the finished parts. Thereforemoderate temperatures and moderate injection- and dozing rates are recommended.

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<sup>\*</sup>Drying normally not necessary