



TDS Polyfort™ 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 Latin America	Asia Pacific North America	Europe
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)	Nominal Value (SI)	Test Method
Density	1.06 g/cm ³	1.06 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.732 in ³ /10min	12.0 cm ³ /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/in ²	4.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F (23°C))	19 ft-lb/in ²	40 kJ/m ²	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

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
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			
--	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·cm	IEC 60093

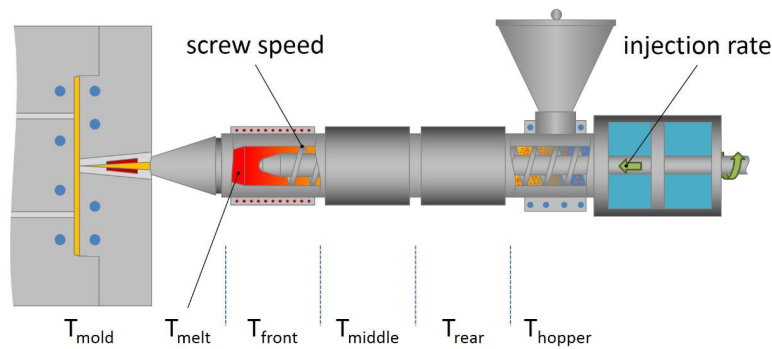
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate	<3.1 in/min	<80 mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

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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

*Drying normally not necessary

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