

TDS Polyfort[™] FPP 20 GB Polypropylene Homopolymer

20% glass bead reinforced PP-Homopolymer with high stiffness and dimension stability					
	2	5	5		
General					
Material Status	Commercial: Active				
5		k Middle East	Asia Pacific	Europe	
	Latin A		North America		
Filler / Reinforcement	Glass Bead, 20% Filler by Weigh		t		
Processing Method	Injection Molding				
Physical		Nominal Value (English)	Nominal Value (SI)	Test Method	
			1 0 1 / 0		
Density		1.04g/cm ³	1.04g/cm ³	ISO 1183/A	
Density Melt Volume-Flow Rate (MVR) (230°C/	2.16 kg)	1.04g/cm ³ 0.610 in ³ /10min	1.04g/cm ³ 10.0 cm ³ /10min	ISO 1183/A ISO 1133	
	'2.16 kg)	-	0		
	'2.16 kg)	-	0		
	'2.16 kg)	-	10.0 cm ³ /10min		
Melt Volume-Flow Rate (MVR) (230°C/	'2.16 kg)	0.610 in ³ /10min	10.0 cm ³ /10min	ISO 1133	
Melt Volume-Flow Rate (MVR) (230°C/	2.16 kg)	0.610 in ³ /10min Nominal Value (English)	10.0 cm ³ /10min Nominal Value (SI)	ISO 1133 Test Method ISO 527-2/1A/1	
Melt Volume-Flow Rate (MVR) (230°C/ Mechanical Tensile Modulus	2.16 kg)	0.610 in ³ /10min Nominal Value (English) 247000 psi	10.0 cm ³ /10min Nominal Value (SI) 1700 MPa	ISO 1133 Test Method ISO 527-2/1A/1 ISO 527-2/1A/50	
Melt Volume-Flow Rate (MVR) (230°C/ Mechanical Tensile Modulus Tensile Stress (Yield)	2.16 kg)	0.610 in ³ /10min Nominal Value (English) 247000 psi 3480 psi	10.0 cm ³ /10min Nominal Value (SI) 1700 MPa 24.0 MPa	ISO 1133 Test Method	
Melt Volume-Flow Rate (MVR) (230°C/ Mechanical Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield)	2.16 kg)	0.610 in ³ /10min Nominal Value (English) 247000 psi 3480 psi 8.0 %	10.0 cm ³ /10min Nominal Value (SI) 1700 MPa 24.0 MPa 8.0 %	ISO 1133 Test Method ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50	
Melt Volume-Flow Rate (MVR) (230°C/ Mechanical Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact	2.16 kg)	0.610 in ³ /10min Nominal Value (English) 247000 psi 3480 psi	10.0 cm ³ /10min Nominal Value (SI) 1700 MPa 24.0 MPa 8.0 %	ISO 1133 Test Method ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50 Test Method	
Melt Volume-Flow Rate (MVR) (230°C/ Mechanical Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact Charpy Notched Impact Strength	2.16 kg)	0.610 in ³ /10min Nominal Value (English) 247000 psi 3480 psi 8.0 % Nominal Value (English)	10.0 cm ³ /10min Nominal Value (SI) 1700 MPa 24.0 MPa 8.0 % Nominal Value (SI)	ISO 1133 Test Method ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50	
Melt Volume-Flow Rate (MVR) (230°C/ Mechanical Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact Charpy Notched Impact Strength -22°F (-30°C)	2.16 kg)	0.610 in ³ /10min Nominal Value (English) 247000 psi 3480 psi 8.0 % Nominal Value (English) 0.95 ft·lb/in ²	10.0 cm ³ /10min Nominal Value (SI) 1700 MPa 24.0 MPa 8.0 % Nominal Value (SI) 2.0 kJ/m ²	ISO 1133 Test Method ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50 Test Method	
Melt Volume-Flow Rate (MVR) (230°C/ Mechanical Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact Charpy Notched Impact Strength -22°F (-30°C) 73°F (23°C)	2.16 kg)	0.610 in ³ /10min Nominal Value (English) 247000 psi 3480 psi 8.0 % Nominal Value (English)	10.0 cm ³ /10min Nominal Value (SI) 1700 MPa 24.0 MPa 8.0 % Nominal Value (SI)	ISO 1133 Test Method ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50 Test Method ISO 179/1eA	
Melt Volume-Flow Rate (MVR) (230°C/ Mechanical Tensile Modulus Tensile Stress (Yield) Tensile Strain (Yield) Impact Charpy Notched Impact Strength -22°F (-30°C)	2.16 kg)	0.610 in ³ /10min Nominal Value (English) 247000 psi 3480 psi 8.0 % Nominal Value (English) 0.95 ft·lb/in ²	10.0 cm ³ /10min Nominal Value (SI) 1700 MPa 24.0 MPa 8.0 % Nominal Value (SI) 2.0 kJ/m ²	ISO 1133 Test Method ISO 527-2/1A/1 ISO 527-2/1A/50 ISO 527-2/1A/50 Test Method	

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Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	10600 psi	73.0 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	246°F	119°C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	178°F	81.0°C	ISO 75-2/Af
Vicat Softening Temperature			
	302°F	150°C	ISO 306/A50
	185°F	85.0°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∙cr	mIEC 60093
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate (0.0787 in (2.00 mm))	< 3.1 in/min	< 80 mm/min	FMVSS
Flammability Classification 0.06 in (1.6 mm)	HB	HB	IEC 60695-11-10, -20

Additional Information

1) Not for use in food contact applications

2) Not for use in medical or pharmaceutical applications

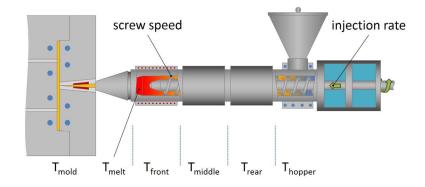
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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176°F	80°C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Regrind	20%	20%
Processing (Melt) Temp	446 to 518°F	230 to 270°C
Mold Temperature	104 to 158°F	40 to 70°C

Injection Notes

*Drying normally not necessary

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