



TDS Polyflam™ RPP 3225 GW

Polypropylene Homopolymer

Product

25% glass fibre reinforced flame-retardant PP-Homopolymer; without PBDE

General

Material Status	Experimental: Active		
Availability	Africa & Middle East Latin America	Asia Pacific North America	Europe
Filler / Reinforcement	Glass Fiber, 25% Filler by Weight		
Features	Copper Contact Stabilized Flame Retardant	High Strength	Homopolymer
Processing Method	Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.39 g/cm ³	1.39 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/5.0 kg)	1.22 in ³ /10min	1.22 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.11E+6 psi	7650 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	10000 psi	69.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.3 %	2.3 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in ²	10 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	17 ft·lb/in ²	35 kJ/m ²	ISO 179/1eU

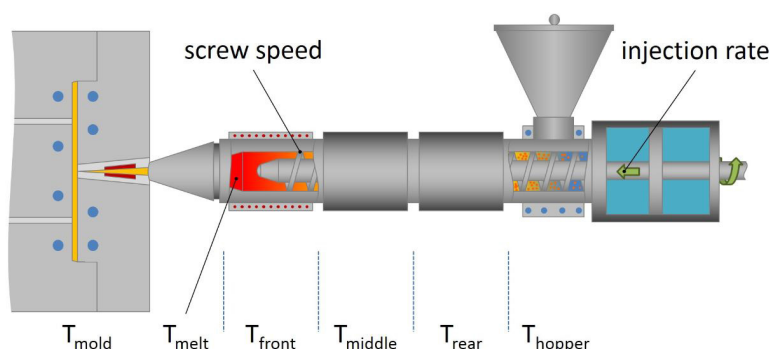
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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
264 psi (1.8 MPa), Unannealed	275°F	135°C	ISO 75-2/A
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94 IEC 60695-11-10, -20
0.06 in (1.6 mm)	V-0	V-0	
0.13 in (3.2 mm)	V-0	V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1760°F	960°C	
0.12 in (3.0 mm)	1760°F	960°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1560°F	850°C	
0.12 in (3 mm)	1560°F	850°C	

TDS Polyflam™ RIPP 510 D

Polypropylene Copolymer



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	158 to 176°F	70 to 80°C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	356°F	180°C
Middle Temperature	392°F	200°C
Front Temperature	410°F	210°C
Nozzle Temperature	428°F	220°C
Processing (Melt) Temp	356 to 428°F	180 to 220°C
Mold Temperature	104 to 176°F	40 to 80°C
Injection Pressure	11600 to 17400 psi	80.0 to 120 MPa
Injection Rate	Slow-Moderate	Slow-Moderate
Holding Pressure	5800 to 13100 psi	40.0 to 90.0 MPa
Back Pressure	725 to 1450 psi	5.00 to 10.0 MPa
Cushion	< 0.197 in	< 5.00 mm
Screw Speed	< 709 in/min	< 18 m/mi