

Anjaflam® 450-FR/GF30

Polybutylene Terephthalate
Almaak International GmbH

Message:

Anjaflam® 450-FR/GF30 is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in Europe for injection molding. Important attributes of Anjaflam® 450-FR/GF30 are:
Flame Rated
Flame Retardant

General Information			
UL YellowCard	E169818-225427		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.65	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	10.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.20	%	
Water Absorption			ISO 62
23°C, 24 hr	0.40	%	
Equilibrium, 23°C, 50% RH	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2/1
Tensile Stress (Break)	130	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Vicat Softening Temperature	210	°C	ISO 306/B50
Melting Temperature (DSC)	224	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Electric Strength (1.50 mm)	25	kV/mm	IEC 60243-1
Comparative Tracking Index (1.50 mm)	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm)	V-0	UL 94
Glow Wire Flammability Index (4.00 mm)	960	°C IEC 60695-2-12
Injection	Nominal Value	Unit
Drying Temperature	110	°C
Drying Time	4.0 to 10	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	80.0 to 110	°C

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