Technical Data Sheet

Polyflam RIPP 374 ND CS1 BKBLK

Polypropylene Copolymer

Product Description

20% talc filled flame-retardant PP-Copolymer; without PBDE

Processing Method	Injection Molding
Attribute	Copolymer; Copper Contact Stabilized
Additive	Flame Retardant
Filler/Reinforcement	Talc, 20%
Resin ID	PP TD20 FR(17)

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	11	cm³/10 min	ISO 1133
Density, (Method A)	1.36	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	21.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2700	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	60	kJ/m²	ISO 179
Hardness			
Ball Pressure Test, (100 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	140	°C	ISO 306
RTI Elec			
(1.5 mm)	50.0	°C	UL 746B
(3.0 mm)	50.0	°C	UL 746B
RTI Imp			
(1.5 mm)	50.0	°C	UL 746B
(3.0 mm)	50.0	°C	UL 746B
RTI Str			
(1.5 mm)	50.0	°C	UL 746B
(3.0 mm)	50.0	°C	UL 746B
Electrical			
Comparative Tracking Index (CTI)	600	V	IEC 60112
Flammable			

Burning Rate			
(1.50 mm, Self-Extinguishing)	0.0	mm/min	ISO 3795
(3.00 mm, Self-Extinguishing)	0.0	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	650	°C	IEC 60695-2-13
(3.0 mm)	650	°C	IEC 60695-2-13
Oxygen Index	27	%	ISO 4589-2
UL Information			
Flame Rating			
(1.5 mm)	V-0		UL 94
(3.0 mm)	V-0		UL 94
Flammability Classification			
(1.5 mm)	V-0		IEC 60695-11-10, -20
(3.0 mm)	V-0		IEC 60695-11-10, -20
UL File Number	E86615		

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	70 to 80	°C
Processing (Melt) Temp	180 to 220	°C
Mold Temperature	40 to 80	°C