

FR20U20 BK01

Filler/Reinforcement Material	15% filler by weight		
Characteristics	Flame retardant	Halogen-free	Good release properties
Applications	Electrical/Electronic applications / Electrical components	Machine/Mechanical parts	Automotive applications
ROHS Compliance	EU ROHS Directive 2011/65/EU		

General Description	Test Standard	Unit	Value
Shrinkage, parallel	ISO 294-4,2577	%	0.5/-
Shrinkage, perpendicular	ISO 294-4,2577	%	0.9/-
Mechanical Properties	Test Standard	Unit	Condition /
Tensile modulus	ISO 527-1/-2	MPa	3805/-
Tensile stress at break	ISO 527-1/-2	MPa	104/-
Elongation at break	ISO 527-1/-2	%	1.9/-
Flexural strength	ISO 527-1-2	MPa	182/-
Flexural modulus	ISO 527-1-2	MPa	6897/-
Charpy notched impact strength	ISO 179/1eA		
+23°C		KJ/m ²	8.4-
-40°C		KJ/m ²	-
Thermal Properties	Test Standard	Unit	dry/Conditioned
Melting temperature, 10°C/min	ISO 11357-1/-3	°C	260/*
Heat deflection temperature, 1.80 MPa	ISO 75-1/-2	°C	192*
Melt flow rate			28.2
Flammability	Test Standard	Unit	dry/Conditioned
1.5mm	UL94		V-0/*
3.0mm	UL94		V-0/*
Glow Wire Flammability Index (GWFI)	IEC 60695-2-12		
1.5mm		°C	850/-
3mm		°C	850/-
Electrical Properties	Test Standard	Unit	dry/Conditioned
Comparative tracking index, 23°C	UL 746A	PLC	600/-
Other Properties	Test Standard	Unit	dry/Conditioned
Moisture absorption, equilibrium, 2mm, 2mm, 23°C, 50%RH	Similar to ISO 62	%	1.3/*
Density	ISO 1183	g/cm ³	1.282/-
Water absorption, 24h immersion	Similar to ISO 62	%	0.85/*
Injection Molding	Test Standard	Unit	dry/Conditioned
Recommended drying	—		Yes
Recommended drying	—	°C	≥8
Drying time, dehumidifying dryer	—	h	0.2-4
Moisture content before processing	—	%	≤0.1
Injection molding melt temperature	—	°C	260-280
Typical Data			
Processing method			Injection molding

Supply Form

Granules

Additives

Flame retardant · Lubricant