LNP™ FARADEX™ COMPOUND WX08014

DESCRIPTION

LNP FARADEX WX08014 is a compound based on Polybutylene Terephalate resin containing Stainless Steel Fiber, Flame Retardant. Added features include: EMI/RMI Shielding, Electrically Conductive, Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20191211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	44	MPa	ISO 527
Tensile Stress, break, 5 mm/min	43	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2	%	ISO 527
Tensile Strain, break, 5 mm/min	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	3200	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	79	MPa	ISO 178
Flexural Stress, break, 2 mm/min	78	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.7	%	ISO 178
Flexural Modulus, 2 mm/min	3400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	15	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	9.7E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.11E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	150	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	76	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow, 24 hrs	1.9	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	2.2	%	ISO 294
Density	1.64	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+03	Ohm	ASTM D 257
Shielding Effectivness @ 3mm	45 – 55	dB	SABIC method
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating	3	mm	UL 94 by SABIC-IP
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	245 – 260	°C	
Front - Zone 3 Temperature	250 – 260	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	230 – 245	°C	
Mold Temperature	80 – 100	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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