

LNP™ THERMOCOMP™ Compound ZFM3314M

(PPE+PS)-GF20

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP ZFM3314M compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 20% glass fiber. Added features of this grade include: Non-Brominated & Non-Chlorinated Flame Retardant, Impact Modified, Heat Stabilized.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	17	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	5	kg	-

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6100	MPa	ISO 527
Stress at break	95	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus	5800	MPa	ISO 178
Izod impact strength, +23°C, 4mm	25	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	170	°C	ISO 75-1/-2
Vicat softening temperature, 120°C/h 50N	179	°C	ISO 306
Coeff. of linear therm. expansion, parallel	32	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	62	E-6/K	ISO 11359-1/-2

Other properties

	Value	Unit	Test Standard
Density	1250	kg/m ³	ISO 1183

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 8	h	-
Processing humidity	≤0.02	%	-
Melt temperature	295 - 315	°C	-
Mold temperature	75 - 105	°C	-
Zone 1	260 - 305	°C	-
Zone 2	270 - 310	°C	-
Zone 3	280 - 315	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant, High impact or impact modified

Regional Availability

North America, Europe, Asia Pacific