

Zytel® HTNFR55G55NHLW BK337 (DEVELOPMENTAL) HIGH PERFORMANCE POLYAMIDE RESIN

Zytel® HTNFR55G55NHLW BK337 is a 57% glass reinforced, flame retardant high performance polyamide resin with improved flow and low warpage in structural applications. It is also a PPA resin and uses a non-halogenated flame retardant.

Product information

Part Marking Code

>PPA-GF57FR<

SAE J1344

Rheological properties

dry/cond.

Moulding shrinkage, parallel

0.1 / -

%

ISO 294-4, 2577

Moulding shrinkage, normal

0.2 / -

%

ISO 294-4, 2577

Typical mechanical properties

dry/cond.

Tensile Modulus

21000 / -

MPa

ISO 527-1/-2

Stress at break, 5mm/min

220 / -

MPa

ISO 527-1/-2

Strain at break, 5mm/min

1.5 / -

%

ISO 527-1/-2

Flexural Modulus

20000 / -

MPa

ISO 178

Flexural Strength

330 / -

MPa

ISO 178

Charpy impact strength, 23°C

60 / -

kJ/m²

ISO 179/1eU

Charpy notched impact strength, 23°C

15 / -

kJ/m²

ISO 179/1eA

Poisson's ratio

0.33 / -

Thermal properties

dry/cond.

Melting temperature, first heat

297 / *

°C

ISO 11357-1/-3

Temp. of deflection under load, 1.8 MPa

230 / *

°C

ISO 75-1/-2

Temp. of deflection under load, 0.45 MPa

260 / *

°C

ISO 75-1/-2

Flammability

dry/cond.

Burning Behav. at 1.5mm nom. thickn.

V-0 / *

class

UL 94

Thickness tested

1.5 / *

mm

UL 94

UL recognition

yes / *

UL 94

Burning Behav. at thickness h

V-0 / *

class

UL 94

Thickness tested

0.75 / *

mm

UL 94

UL recognition

yes / *

UL 94

Other properties

dry/cond.

Density

1720 / -

kg/m³

ISO 1183

Injection

Drying Recommended

yes

Drying Temperature

100 °C

Drying Time, Dehumidified Dryer

6 - 8 h

Processing Moisture Content

≤0.1 %

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Min. melt temperature	300 °C
Max. melt temperature	315 °C
Min. mould temperature	70 °C
Max. mould temperature	130 °C

Characteristics

Additives	Flame retardant
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Additional information

Injection molding	For molding machine components, use corrosion resistant and wear resistant steel. For details please contact our representative. Limit the residence time of the resin in the machine. Use proper protective equipment and adequate ventilation.
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