



# Rynite® FR335 NC010 (PRELIMINARY)

## THERMOPLASTIC POLYESTER RESIN

Rynite® FR335 NC010 is a 35% glass/mineral reinforced, flame retardant, modified polyethylene terephthalate resin.

### Product information

Resin Identification	PET-GF35FR(30+16)	ISO 1043
Part Marking Code	>PET-GF35FR(30+16)<	ISO 11469

### Rheological properties

Moulding shrinkage, parallel	0.3 %	ISO 294-4, 2577
Moulding shrinkage, normal	0.7 %	ISO 294-4, 2577

### Typical mechanical properties

Tensile Modulus	12300 MPa	ISO 527-1/-2
Stress at break	130 MPa	ISO 527-1/-2
Strain at break	1.9 %	ISO 527-1/-2
Charpy impact strength, 23°C	30 kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	9 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.33 -	

### Thermal properties

Melting temperature, 10°C/min	248 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	236 °C	ISO 75-1/-2
CLTE, Parallel, -40-23°C	18 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, parallel	18 E-6/K	ISO 11359-1/-2
CLTE, Parallel, 55-160°C	13 E-6/K	ISO 11359-1/-2
CLTE, Normal, -40-23°C	53 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	64 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, Normal, 55-160°C	85 E-6/K	ISO 11359-1/-2
RTI, electrical, 0.75mm	155 °C	UL 746B
RTI, electrical, 3mm	155 °C	UL 746B
RTI, impact, 0.75mm	150 °C	UL 746B
RTI, impact, 3mm	150 °C	UL 746B
RTI, strength, 0.75mm	150 °C	UL 746B
RTI, strength, 3mm	150 °C	UL 746B

### Flammability

Burning Behav. at thickness h	V-0 class	IEC 60695-11-10
Thickness tested	0.75 mm	IEC 60695-11-10
UL recognition	yes -	UL 94
Burning Behav. 5V at thickness h	5VA class	IEC 60695-11-20
Thickness tested	1.5 mm	IEC 60695-11-20
UL recognition	yes -	UL 94

