

Rynite® FR335 BK507 (PRELIMINARY)

THERMOPLASTIC POLYESTER RESIN

Rynite® FR335 BK507 is a 35% glass/mineral reinforced, flame retardant, modified polyethylene terephthalate resin.

Product information Resin Identification Part Marking Code	PET-GF35FR(30+16) >PET-GF35FR(30+16)<	ISO 1043 ISO 11469
Rheological properties Moulding shrinkage, parallel	0.3 %	ISO 294-4, 2577
Moulding shrinkage, normal	0.6 %	ISO 294-4, 2577
Typical mechanical properties Tensile Modulus Stress at break Strain at break Flexural Modulus	11600 MPa 110 MPa 1.7 % 11000 MPa	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178
Flexural Strength Charpy impact strength, 23°C Charpy notched impact strength, 23°C Charpy notched impact strength, -40°C Poisson's ratio	180 MPa 30 kJ/m² 8 kJ/m² 8 kJ/m² 0.33 -	ISO 178 ISO 179/1eU ISO 179/1eA ISO 179/1eA
Thermal properties		
Melting temperature, 10°C/min Temp. of deflection under load, 1.8 MPa RTI, electrical, 0.75mm RTI, electrical, 3mm RTI, impact, 0.75mm RTI, impact, 3mm RTI, strength, 0.75mm RTI, strength, 3mm	248 °C 230 °C 155 °C 155 °C 150 °C 150 °C 150 °C	ISO 11357-1/-3 ISO 75-1/-2 UL 746B UL 746B UL 746B UL 746B UL 746B UL 746B
Flammability Burning Behav. at thickness h Thickness tested UL recognition Burning Behav. 5V at thickness h Thickness tested UL recognition	V-0 class 0.75 mm yes - 5VA class 1.5 mm yes -	IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-11-20 IEC 60695-11-20 UL 94

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Electrical properties

Volume resistivity	>1E13 Ohm.m	IEC 62631-3-1
Surface resistivity	>1E15 Ohm	IEC 62631-3-2
Electric strength	33 kV/mm	IEC 60243-1
Comparative tracking index	275 -	IEC 60112
Comparative tracking index, 3.0mm	2 PLC	UL 746A

Other properties

Density	1660 kg/m³	ISO 1183
Water Absorption, Immersion 24h	0.13 %	Sim. to ISO 62

Injection

Drying Recommended	yes
Drying Temperature	120 °C
Drying Time, Dehumidified Dryer	4-6 h
Processing Moisture Content	≤0.02 ^[1] %
Min. melt temperature	270 °C
Max. melt temperature	280 °C
Mold Temperature Optimum	110 °C
Min. mould temperature	100 °C
Max. mould temperature	120 ^[2] °C
•	100 °C 120 ^[2] °C

[1]: At levels above 0.02%, strength and toughness will decrease, even though parts may not exhibit surface defects.

[2]: (6mm - 1mm thickness)

Characteristics

Additives Flame retardant

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The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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