

Zytel® 73G30L ECO-R 231 BK300

NYLON RESIN

Zytel® 73G30L ECO-R 231 BK300 is an 30% glass fiber reinforced Polyamide 6 in black form

Zytel® 73G30L ECO-R 231 BK300 incorporates a minimum of 20% ocean-bound post-consumer recycled content by weight in the finished product. The recycled content source is from used fishnets.

Product information

Resin Identification	PA6-GF30	ISO 1043
Part Marking Code	>PA6-GF30<	ISO 11469

Rheological properties

	dry/cond.		
Moulding shrinkage, parallel	0.3 / -	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.9 / -	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	9500 / 6500	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	154 / 100	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5 / 6.1	%	ISO 527-1/-2
Flexural modulus	9000 / -	MPa	ISO 178
Flexural strength	260 / 160	MPa	ISO 178
Charpy impact strength, 23°C	65 / 80	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	12 / 17	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 / 0.35		

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	200 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	215 / *	°C	ISO 75-1/-2

Electrical properties

	dry/cond.		
Comparative tracking index	450 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.1 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.5 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m ³	ISO 1183

Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	4 - 6 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	270 °C
Min. melt temperature	260 °C
Max. melt temperature	280 °C
Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C

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Max. mould temperature
Hold pressure range

120 °C
50 - 100 MPa

Characteristics

Processing

Injection Moulding

Delivery form

Pellets

Sustainability

Recycled Content
