

Zytel® FR73G30V0NH1 ECO-R 311 N904LM incorporates 30% of post-industrial recycled content by weight in the finished product. The product is designed for applications requiring self-extinguishing properties combined with good mechanical performances.

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Resin Identification Part Marking Code Continuous Service Temperature	(PA6)-GF30 FR(4 >(PA6)-GF30 FR 130	, , ,	ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	150/*	cm³/g	ISO 307, 1628
Moulding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	10300/5800	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	125/75	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5/6.5	%	ISO 527-1/-2
Charpy impact strength, 23°C	50/>50	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	45/40	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	8/10	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	6.5/6	kJ/m²	ISO 179/1eA
Poisson's ratio	0.34/0.35 <sup>[C]</sup>		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10 ° C/min	220/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	190/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	210/*	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 10N	213	°C	ISO 306
Ball pressure test	175/-	°C	IEC 60695-10-2
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-0/*	class	IEC 60695-11-10
Burning Behav. at thickness h	V-0/*	class	IEC 60695-11-10
Thickness tested	0.75/*	mm	IEC 60695-11-10
Glow Wire Flammability Index, 0.75mm	850/-	°C	IEC 60695-2-12
Glow Wire Ignition Temperature, 0.75mm	725/-	°C	IEC 60695-2-13
Electrical properties	dry/cond.		
Volume resistivity	>1E13/-	Ohm.m	IEC 62631-3-1
Surface resistivity	*/1E13	Ohm	IEC 62631-3-2
Comparative tracking index, 100 drops	600		IEC 60112

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#### Physical/Other properties

dry/cond.

Humidity absorption, 2mm	1.2/*	%	Sim. to ISO 62
Water absorption, 2mm	4.3/*	%	Sim. to ISO 62
Density	1430/-	kg/m³	ISO 1183

### Injection

Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.1	%
Melt Temperature Optimum	250	°C
Min. melt temperature	240	°C
Max. melt temperature	260	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	80	°C
Min. mould temperature	60	°C
Max. mould temperature	90	°C

#### Characteristics

Processing Injection Moulding

Delivery form Granules

Additives Flame retardant, Non-halogenated/Red phosphorous free flame retardant, Contains

Recycle

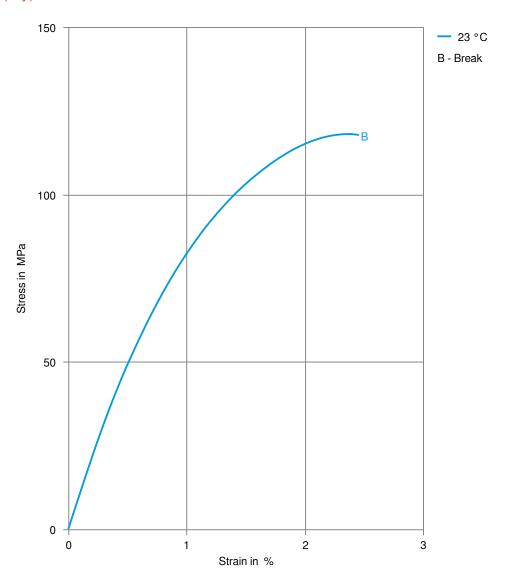
Special characteristics Flame retardant, Heat stabilised or stable to heat, Sustainable

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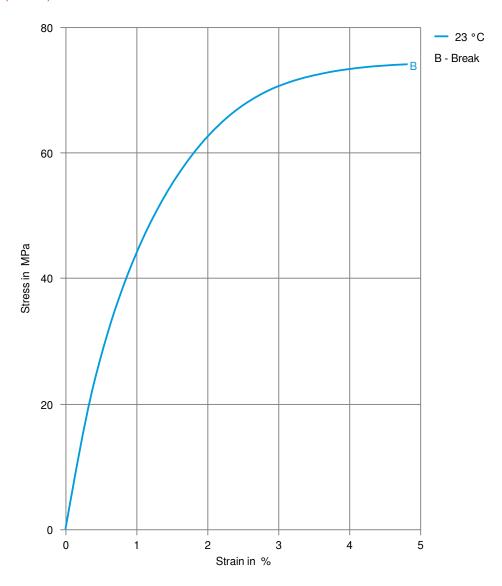
### Stress-strain (dry)



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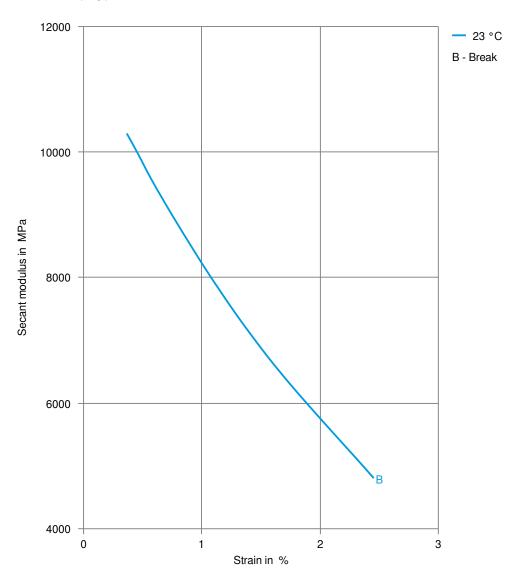
### Stress-strain (cond.)



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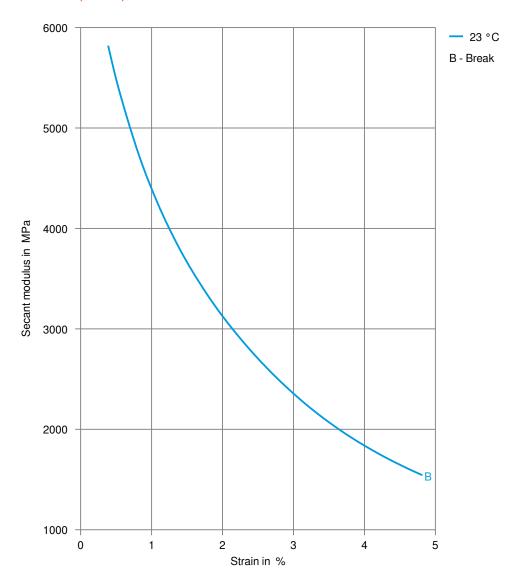
### Secant modulus-strain (dry)



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#### Secant modulus-strain (cond.)



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