

CELANYL® B3 GF15 BK 9005/U

CELANYL®

Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA6-GF15	ISO 1043
Part Marking Code	>PA6-GF15<	ISO 11469
Continuous Service Temperature	90 °C	IEC 60216-1

Rheological properties

	dry/cond.		
Melt volume-flow rate	15/*	cm ³ /10min	ISO 1133
Temperature	230/*	°C	
Load	5/*	kg	
Viscosity number	160/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.3 - 0.7	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 1.1	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	5700/3470	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	125/68	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5/14	%	ISO 527-1/-2
Flexural modulus	6000/3450	MPa	ISO 178
Flexural strength	190/95	MPa	ISO 178
Charpy impact strength, 23°C	40/91	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	34/51	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	4.5/8.2	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3.5/4.1	kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 961/30	180/-	MPa	ISO 2039-1
Poisson's ratio	0.35/0.37 ^[C]		
[C]: Calculated			

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	225/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	210/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	220/*	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10

Electrical properties

	dry/cond.		
Comparative tracking index	550/-		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2/*	%	Sim. to ISO 62
Water absorption, 2mm	7.5/*	%	Sim. to ISO 62
Density	1230/-	kg/m ³	ISO 1183

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Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.15 %
Melt Temperature Optimum	260 °C
Min. melt temperature	240 °C
Max. melt temperature	290 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	60 °C
Max. mould temperature	120 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules

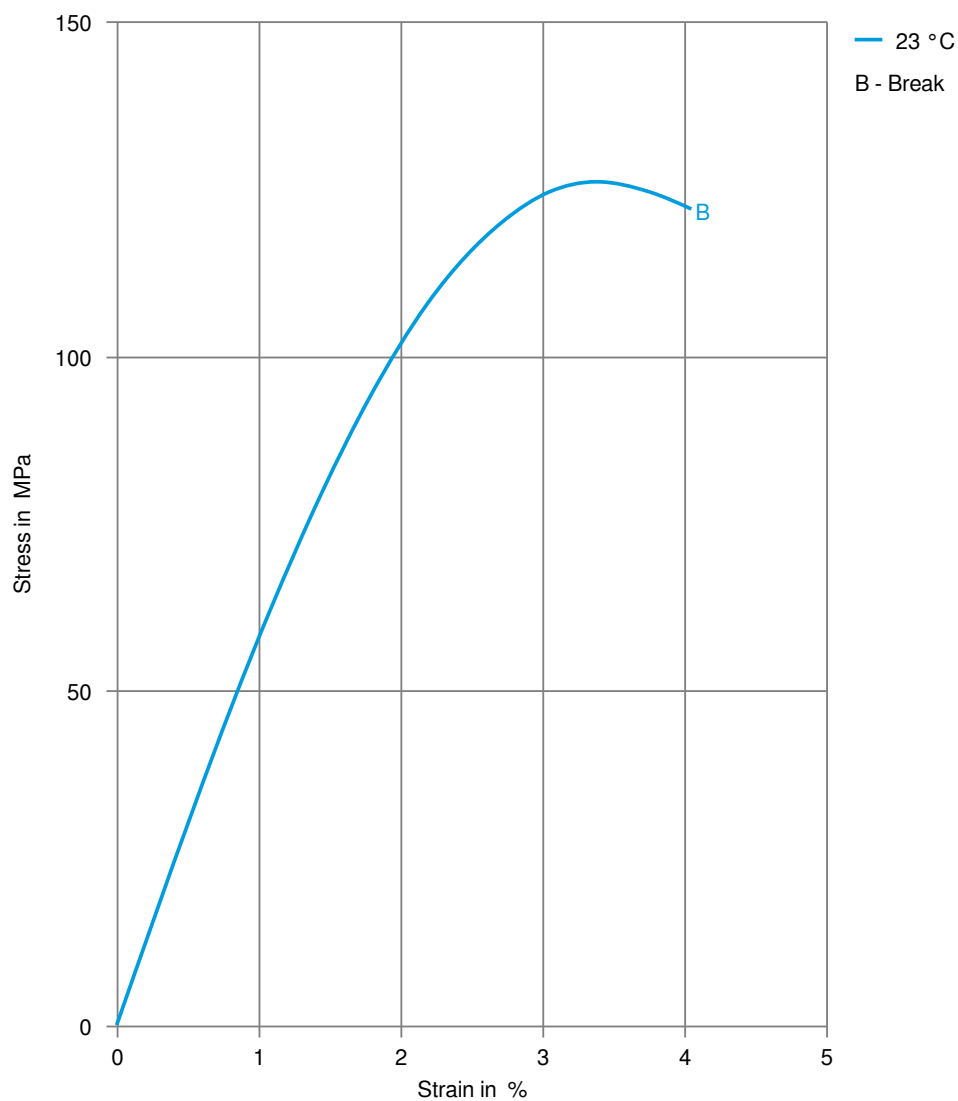
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
VW Group	VW 50134	EMEA

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Stress-strain (dry)



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Secant modulus-strain (dry)

