



Designed for Automotive Industry and for any application that require mechanical performance combined with long term heat ageing resistance.

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Resin Identification	PA66-GF35		ISO 1043
Part Marking Code	>PA66-GF35<		ISO 11469
Continuous Service Temperature	130	°C	IEC 60216-1
Rheological properties			
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	11000/7700	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	180/120	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5/4.6	%	ISO 527-1/-2
Flexural modulus	10000/-	MPa	ISO 178
Flexural strength	280/-	MPa	ISO 178
Charpy impact strength, 23°C	80/85	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C Charpy notched impact strength, 23°C	52/58 11/16	kJ/m² kJ/m²	ISO 179/1eU ISO 179/1eA
Charpy notched impact strength, -30°C	8/-	kJ/m²	ISO 179/16A ISO 179/16A
Izod notched impact strength, 23°C	10/-	kJ/m²	ISO 173/16A
Izod impact strength, 23°C	55/-	kJ/m²	ISO 180/1U
Poisson's ratio	0.38/- ^[C]	110/111	100 100/10
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10 ° C/min	263/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	250/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	260/*	°C	ISO 75-1/-2
Coefficient of linear thermal expansion	22/*	E-6/K	ISO 11359-1/-2
(CLTE), parallel			
Coefficient of linear thermal expansion (CLTE), normal	113/*	E-6/K	ISO 11359-1/-2
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
UL recognition	yes/*		UL 94
FMVSS Class	В	, .	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	29.6	mm/min	ISO 3795 (FMVSS 302)

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Physical/Other properties

dry/cond.

Humidity absorption, 2mm	1.3/*	%	Sim. to ISO 62
Water absorption, 2mm	5.3/*	%	Sim. to ISO 62
Density	1410/-	kg/m³	ISO 1183

Injection

D : D		
Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	295	°C
Min. melt temperature	285	°C
Max. melt temperature	305	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	70	°C
Max. mould temperature	120	°C
Ejection temperature	225	°C

Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat, Hydrolysis resistant

Automotive

OEM STANDARD ADDITIONAL INFORMATION

General Motors GMW3038P-PA66-GF35H Black
General Motors GMW3038P-PA66-GF35J Black

VW Group VW 50127 *Best Fitting Grade To PA66-8, Not Officially

Approved

VW Group VW 50133 *Best Fitting Grade To PA66-7-A, Not Officially

Approved

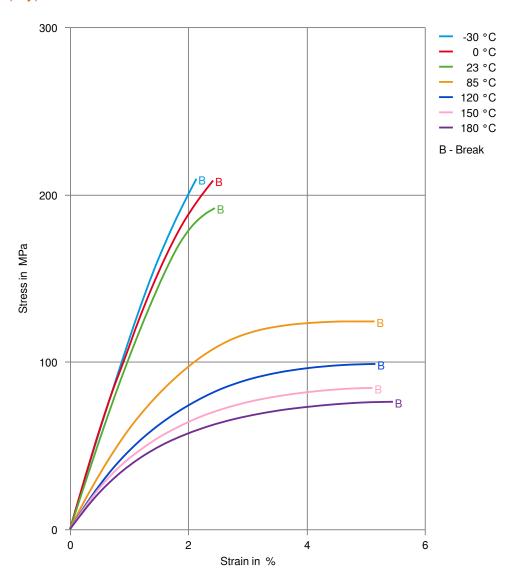
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Stress-strain (dry)

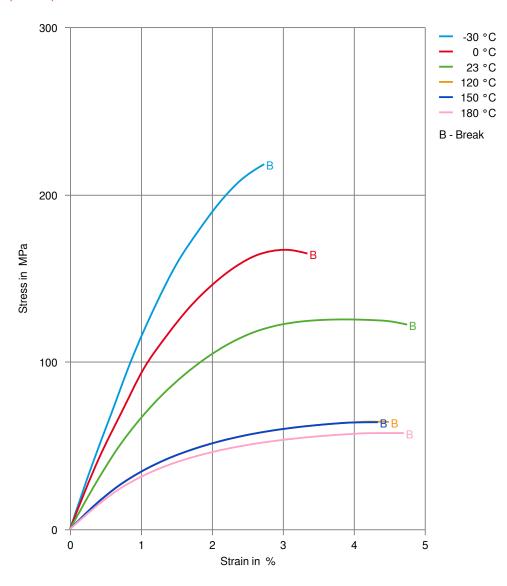


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Stress-strain (cond.)

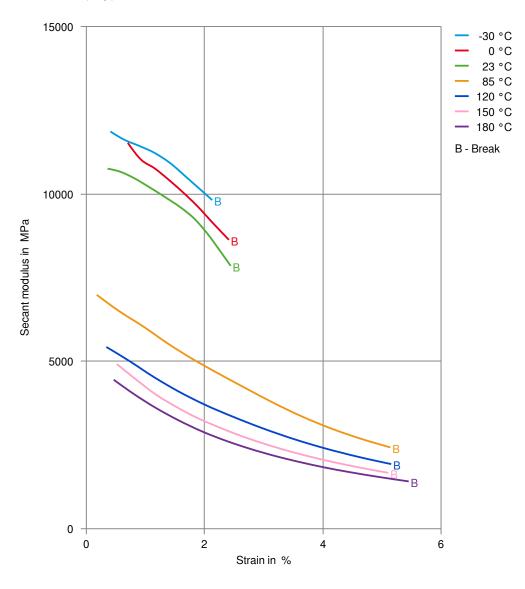


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Secant modulus-strain (dry)

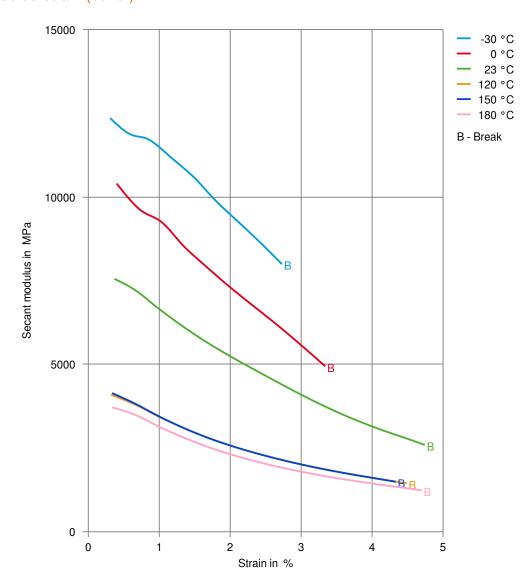


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Secant modulus-strain (cond.)



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