

**Pocan® BF4232HR 901510**  
**PBT-GF30 FR(17)**

Envalior

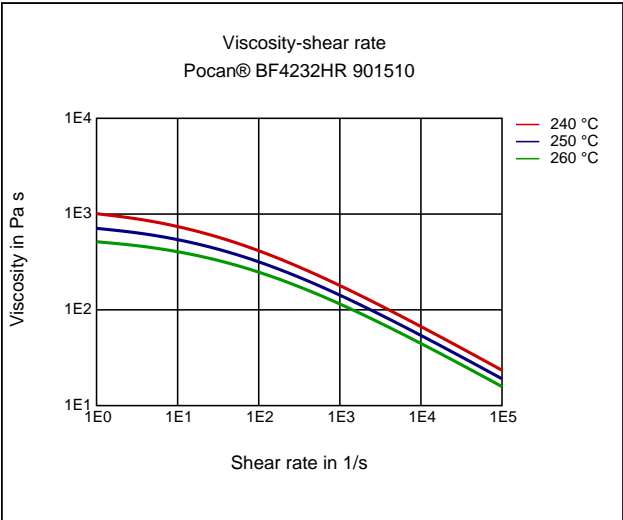
Injection Molding, 30% Glass Reinforced, Flame Retardant, Hydrolysis resistant

ISO 1043 PBT-GF30 FR(17)

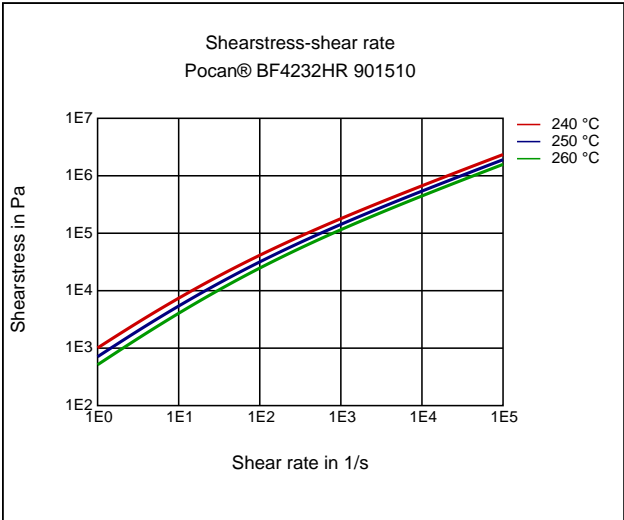
Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	16	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	9800	MPa	ISO 527
Stress at Break	120	MPa	ISO 527
Strain at Break	2	%	ISO 527
Impact Strength (Charpy), +23°C	40	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melting Temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	195	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	100	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-0	class	UL 94
Thickness tested	1.5	mm	-
Oxygen index	36.4	%	ISO 4589-1/-2
Electrical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Electric Strength	29.8	kV/mm	IEC 60243-1
Comparative tracking index	225	-	IEC 60112
Other Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density	1670	kg/m <sup>3</sup>	ISO 1183
Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
Injection Molding, melt temperature	250	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.02	%	-
Melt temperature	240 - 260	°C	-
Mold temperature	80 - 100	°C	-

Diagrams

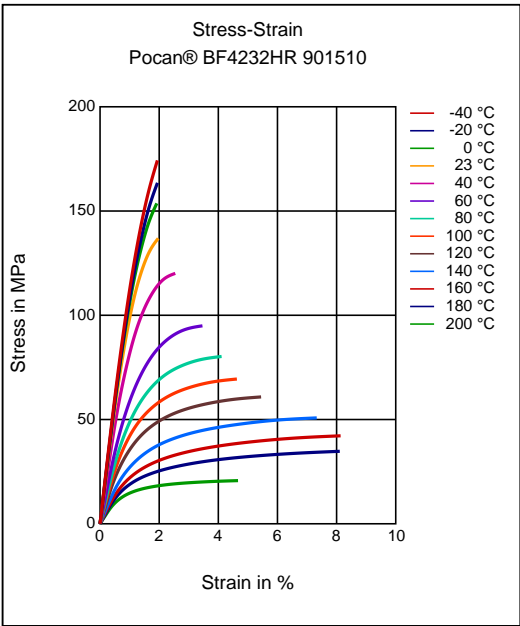
Viscosity-shear rate



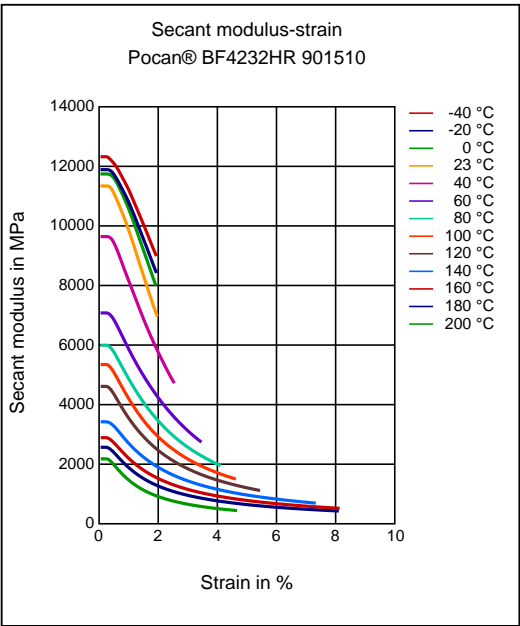
Shearstress-shear rate



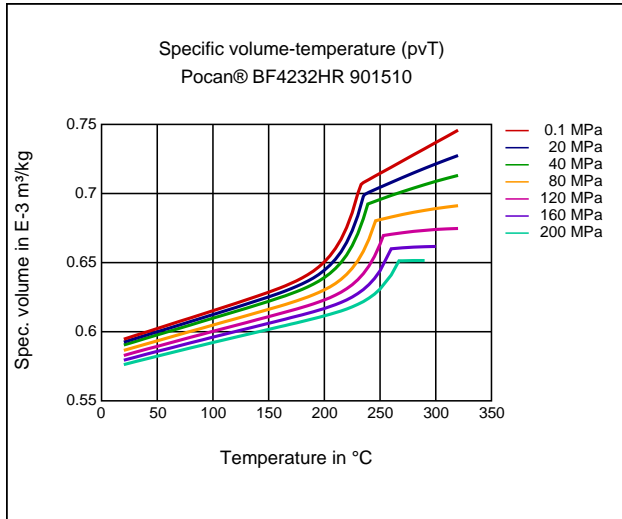
Stress-strain



Secant modulus-strain



### Specific volume-temperature (pvT)



### Characteristics

#### Processing

Injection Molding

#### Delivery form

Pellets

#### Special Characteristics

Flame retardant, Heat aging stabilized

#### Chemical Resistance

Hydrolysis

### Injection Molding

#### PREPROCESSING

Residual moisture content: 0.00 - 0.02 %

Drying temperature circulating air dryer: 120 °C

Drying time circulating air dryer: 4 - 8 h

#### PROCESSING

Melt temperature (Tmin - Tmax): 240 - 260 °C

Mold temperature: 80 - 100 °C

### Disclaimer

#### Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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