



SABIC® STAMAX 40YM240

PP LGF reinforced for Automotive injection moulding

Description:

SABIC® STAMAX 40YM240 is a 40% long glass fiber reinforced grade. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength.

IMDS ID: 16497161

Typical values

Revision 20150617

Properties	Unit (SI)	Values	Testmethods
Polymer properties			
Density	kg/m ³	1220	ISO 1183
Glass fibre content	%	40	ISO 3451
Mechanical properties ¹⁾			
Tensile modulus			ISO 527/1B
at 23 °C	MPa	8300	
at 80 °C	MPa	5700	
at 120 °C	MPa	4500	
Tensile strength			ISO 527/1B
at 23 °C	MPa	121	
at 80 °C	MPa	75	
at 120 °C	MPa	54	
Tensile elongation at break			ISO 527/1B
at 23 °C	%	2,1	
Flexural modulus			ISO 178
at 23 °C	MPa	7850	
at 80 °C	MPa	5550	
Flexural strength			ISO 178
at 23 °C	MPa	172	
at 80 °C	MPa	91	
Charpy impact notched			ISO 179/1eA
at 23 °C	kJ/m ²	22	
at -30 °C	kJ/m ²	28	
Charpy impact unnotched			ISO 179/1eU
at 23 °C	kJ/m ²	68	
at -30 °C	kJ/m ²	48	
Falling dart			ISO 6603-2
total energy at 23 °C	J/mm	6,6	
total energy at -40 °C	J/mm	-	
Thermal properties			
Heat deflection temperature			ISO 75/A
at 1.80 MPa (HDT/A)	°C	157	
Coeff. of linear thermal expansion			ASTM D696
23 °C to 80 °C	µm/mK	31	
-30 °C to 30 °C	µm/mK	44	

1) All measurements on injection molded samples.



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