SABIC® STAMAX 30YK470 Provisional

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® STAMAX 30YK470 is a 30% long glass fiber reinforced grade with improved impact and flow properties. The grade is specially developed for extrusion compression moulding. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength.

General Information			
Filler / Reinforcement	Long glass fiber, 30% filler by weight		
Features	Rigid, good Chemical coupling Impact resistance, good Good liquidity Good strength		
Uses	Application in Automobile Field		
Processing Method	Compression molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.12	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2/1B
23°C, injection molding	6200	MPa	ISO 527-2/1B
80°C, injection molding	4400	MPa	ISO 527-2/1B
120°C, injection molding	3600	MPa	ISO 527-2/1B
Tensile Stress			ISO 527-2/1B
Yield, 23°C, injection molding	98.0	MPa	ISO 527-2/1B
Yield, 80°C, injection molding	60.0	MPa	ISO 527-2/1B
Yield, 120°C, injection molding	43.0	MPa	ISO 527-2/1B
Tensile Strain (Break, 23°C, Injection Molded)	2.3	%	ISO 527-2/1B
Flexural Modulus			ISO 178
23°C, injection molding	5500	MPa	ISO 178
80°C, injection molding	3600	MPa	ISO 178
Flexural Stress			ISO 178
23°C, injection molding	138	MPa	ISO 178
80°C, injection molding	70.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, injection molding	24	kJ/m²	ISO 179/1eA
23°C, injection molding	21	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU

-30°C, injection molding	70	kJ/m²	ISO 179/1eU
23°C, injection molding	57	kJ/m²	ISO 179/1eU
Falling Dart Impact - Total Energy (23°C)	58.0	J/cm	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	157	°C	ISO 75-2/A
CLTE - Flow			ASTM D696
-30 to 30°C	5.4E-5	cm/cm/°C	ASTM D696
23 to 80°C	3.7E-5	cm/cm/°C	ASTM D696

Recommended distributors for this material

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