

EPLAMID 6 GFR 30 BK Q2D002

Polyamide 6

Polyamide 6, reinforced with 30% of glass fiber, heat-aging stabilized, lubricated for injection moulding.

Properties	Test Method	Unit		Value
Physical properties			Dry	Cond
Density (23°C)	ISO 1183	g/cm ³	1,35	
Ash content	ISO 3451-4	%	30	
Determination of water content	ISO 15512	%	0,1	
Mold shrinkage- parallel/normal (3mm)	ISO 294-4	%	0,4/0,7	
Mechanical properties				
Tensile modulus (1mm/min) (23°C)	ISO 527-2	MPa	9500	7500
Tensile stress at break (5mm/min) (23°C)	ISO 527-2	MPa	175	115
Tensile strain at break (5mm/min) (23°C)	ISO 527-2	%	3	6
Flexural modulus (2mm/min) (23°C)	ISO 178	MPa	8500	6000
Flexural strength (2mm/min) (23°C)	ISO 178	MPa	280	215
Notched izod impact (23°C)	ISO 180/1A	kJ/m ²	12	14
Unnotched izod impact (23°C)	ISO 180/1U	kJ/m ²	70	80
Notched charpy impact (23°C)	ISO 179/1eA	kJ/m ²	13	15
Unnotched charpy impact (23°C)	ISO 179/1eU	kJ/m ²	75	85
Thermal properties				
Melting point	ISO 3146	°C	220	
Temp. of deflection under load (0,45 MPa)	ISO 75-2/B	°C	220	
Temp. of deflection under load (1,80 MPa)	ISO 75-2/A	°C	205	
Flammability & electrical properties				
Flammability classification (0,8mm) - UL 94	EN 60695-11-10	-	HB	
Comparative tracking index - CTI (Solution A)	EN 60112	V	550	
Surface resistivity	ASTM D257	Ω/sq	1,00E+13	
Test conditions				
Laboratory conditions are 23 ±2°C and 45-55 % RH.				

Notes:

Eplamid 6 glass fiber reinforced compounds are used in all sectors of industry, offering a good balance of thermal and mechanical properties.

This material is available in natural and colours on request.

Producer:EPSAN.Turkey.