

EnCore 30GF

Acrylonitrile Butadiene Styrene

EnCom Polymers

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Technical Data

Product Description

30% Glass Reinforced

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• EnCom Polymers
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Uses	• Automotive Applications • Business Equipment • Thin-walled Parts
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding • Profile Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.28	1.28 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in (3.20 mm))	1.0E-5 to 3.0E-5 in/in	1.0E-3 to 3.0E-3 %	ASTM D955

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	12800 psi	88.0 MPa	ASTM D638
Tensile Elongation (Break)	4.4 %	4.4 %	ASTM D638
Flexural Modulus	1.05E+6 psi	7240 MPa	ASTM D790
Flexural Strength	20700 psi	143 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.1 ft·lb/in	59 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	219 °F	104 °C	
264 psi (1.8 MPa), Unannealed	205 °F	96.0 °C	

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	190 °F	88 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Rear Temperature	400 to 480 °F	204 to 249 °C
Middle Temperature	420 to 500 °F	216 to 260 °C
Front Temperature	420 to 500 °F	216 to 260 °C
Nozzle Temperature	420 to 500 °F	216 to 260 °C
Processing (Melt) Temp	420 to 500 °F	216 to 260 °C
Mold Temperature	80 to 140 °F	27 to 60 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

Injection Notes

Maximum Drying Time 4 hrs

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

