

EnCore 30GFHH

ABS



Product Description					
30% Glass Reinforced High Heat ABS					
General Properties					
Appearance	Black, Natural or Colors				
Processing Methods	Injection Molding, Profile Extrusion				
Applications	Automotive, Business Equipment, Thin Wall Applications				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	12,750	psi	88	MPa
Tensile Elongation at Break	ASTM D638	4.40	%	4.40	%
Flexural Modulus	ASTM D790	1,050,000	psi	7,241	MPa
Flexural Strength	ASTM D790	20,750	psi	143	MPa
Notched Izod Impact (73°F)	ASTM D256	1.1	ft-lb/in	59	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.32	sp gr	1.32	sp gr
Melt Flow 230 °C/3.8 kg	ASTM D1238	5.0	g/10min	5.0	g/10min
Mold Shrink -XFlow: 0.126 in (3.20 mm)	ASTM D955	.001 - 0.003	in/in	.001 - 0.003	mm/mm
Filler Content		30	%	30	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	235	°F	113	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	215	°F	102	°C
Injection Molding		Value			
Drying Temperature		190	°F		
Drying Time		2.0 - 4.0	hr		
Maximum Drying Time		4.0	hr		
Suggested Maximum Moisture		0.02	%		
Rear Barrel Temperatures		400 - 480	°F		
Middle Barrel Temperatures		420 - 500	°F		
Front Barrel Temperatures		420 - 500	°F		
Nozzle Temperature		420 - 500	°F		
Melt (processing) Temperatures		420 - 500	°F		
Mold Temperatures		80 - 140	°F		
Back Pressure		50 - 100	psi		

These Data Sheet Values are Typical Values and are not intended for specification purposes. These values should only be used as a guide and no assurances by EnCom, Inc. can be granted that all molded articles will exhibit duplicate properties as those listed above. Each material user should perform their own testing for suitability.