



SEQUEL E9000

DESCRIPTION:

SEQUEL® E9000 thermoplastic olefin (TPO) is a carbon fiber filled material designed for thermoformed structural applications requiring high stiffness. This material comes only in charcoal black color and can be used as a substrate layer for coextrusion under other E-grades.

APPLICATIONS:

Fiberglass and FRP replacement.

PROPERTY	TYPICAL VALUE	UNITS	ASTM METHOD
PHYSICAL			
Specific Gravity	1.10		ISO 1183
Melt Flow Rate	0.5	g/10 min	ISO 1133, 230°C, 2.16 kg.
Mold Shrinkage	0.4 – 0.6	%	ISO 294
MECHANICAL			
Flexural Modulus	750,000 (5,000)	lb/in ² (MPa)	ISO 178
Tensile Strength at Yield	3,400 (23)	lb/in ² (MPa)	ISO 527
Elongation at Break	115	%	ISO 527
Instrumented Impact, Total Energy			ASTM D3763, 2.2 m/s
@ -22°F (-30°C)	165 (18.6)	in-lb (J)	
Notched Izod Impact Strength			ISO 180
@ 73°F (23°C)	5.1 (10.8) NB	ft-lb/in ² (kJ/m ²)	
@ -22°F (-30°C)	1.7 (3.6) PB	ft-lb/in ² (kJ/m ²)	
THERMAL			
HDT (annealed)			ISO 75
@ 66 psi (0.45 MPa)	277 (136)	°F (°C)	
@ 264 psi (1.80 MPa)	192 (89)	°F (°C)	
CLTE	1.6 x10 ⁻⁵ (2.9 x10 ⁻⁵)	in/in/°F (mm/mm/°C)	ISO 11359, -22°F (-30°C) to 178°F (80°C) range

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PRELIMINARY

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