

Amilan® CM3006R30F

Nylon 66 / Mineral Filled / Low Warpage / Heat Stabilized / High Flow

Property		Test Method (ASTM)	Units	Amilan® CM3006R30F		
				Dry	1.4% water	
Reinforcing Material Content		-	wt%	30		
Specific Gravity		D792	-	1.40	-	
Water Absorption	73°F, 24hrs	D570	%	0.7	-	
	73°F saturated water absorption			-	-	
Tensile Yield Strength	-40°F	D638	PSI	-	-	
	73°F			12,600	9,200	
	176°F			-	-	
Elongation at Break	-40°F	D638	%	-	-	
	73°F			5.0	6.0	
	176°F			-	-	
Flexural Strength	-40°F	D790	PSI	-	-	
	73°F			20,000	10,500	
	176°F			-	-	
Flexural Modulus	-40°F	D790	PSI	-	-	
	73°F			780,000	397,000	
	176°F			-	-	
Compressive Strength	-40°F	D695	PSI	-	-	
	73°F			-	-	
	176°F			-	-	
Shear Strength		73°F	D732	PSI	-	-
Izod Impact	v-notched	-40°F	D256	ft-lbs/in	0.55	-
	v-notched	73°F			1.8	1.8
	unnotched	-40°F	D256	ft-lbs/in	-	-
	unnotched	73°F			-	-
Rockwell Hardness		73°F	D785		R120, M83	R115
Taber Abrasion		D1044	mg / 1000cycles	-	-	
Melting Point		DSC Method	°F	505	-	
Heat Deflection Temp	66 PSI	D648	°F	464	-	
	264 PSI			320	-	
UL-94 Flame Class		UL-94	-	-		
Volume Resistivity		D257	Ω·m	-	-	
Dielectric Strength (0.12"t)		D149	MV/m	-	-	
Dielectric Constant (73°F, 60%RH)	50Hz	D150	-	-	-	
	1KHz			-	-	
	1MHz			-	-	
Mold Shrinkage	0.04"t	TORAY	%	-	-	
	0.12"t			1.0 – 1.4	-	

Notes: These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.