



波丽奥® Polycarbonate Sheet **RHA71**

- ◇ Texture: matte
- ◇ Color: standard gray, brown, other colors can be customized
- ◇ Properties: flame retardant, low smoke, high impact resistant, easy for thermal forming
- ◇ Passed DIN5510, TB/T3237 and EN4554 security tests
- ◇ Thickness: 0.8mm~6.0mm
- ◇ Common thickness: 1.0mm and 1.3mm
- ◇ Application: table panels and interiors for high-speed railway and airplane

Product Datasheet

Item	Property	Test Value	Unit	Test Condition	Test Method
Physical Properties	Density	1.2	g/cm ³	-	ISO1183
	Water Absorption	0.28	%	23°C , 24h	ISO 62
Mechanical Properties	Yield Strength	70	MPa	23°C	ISO 527
	Tensile Breaking Strength	60	MPa	23°C	ISO 527
	Elongation at Break	100-120	%	-	ISO 527
	Tensile Modulus	2210	MPa	-	ISO 527
Thermal Properties	Thermal Expansion Coefficient	5.8	×10 ⁻⁵ /°C	-	ASTM E831
	Thermal Conductivity	0.2	W/(m*K)	-	ASTM D5470
	Shrinkage	0.5	%	150°C	ASTM D1204
Electrical Properties	Dielectric Strength	33	KV/mm	-	IEC 60243
		2.9	-	50 Hz	IEC 60250
	2.8	-	1000 Hz		
	Volume Resistance	1.00E+17	Ω/square	-	ASTM D257
	Surface Resistance	1.00E+16	Ω-cm	-	ASTM D257
Flammability	Burning Class	S-3	-	-	DIN 5510
	Smoke Class	SR-2	-	-	
	Dripping Class	ST-2	-	-	
	FED Value	0.04	-	-	TB/T 3237
	Oxygen Index Test	39.8	%	-	
	Combustion Resistance Test	A	-	-	
	Smoke Density Test	Pass	-	-	
Toxic Gas Analysis	Pass	-	-		

Tip: This test is for reference only, not for absolute indicator of application.



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