
TECHNICAL GUIDE

Flammability Testing

ACRYLIC TESTING

Test	Rating	Measurable Data	Test Criteria	Test Results
ASTM D-2843 Smoke Density Rating	Pass	Density of Smoke from the Burning or Decomposition of Plastics	75% Maximum	4.8% Density
ASTM D-635 Combustion Rating	CC2	Rate, Extent and Time of Burning of Plastic in a Horizontal Position	Less than 2.5-in per minute continuous flame	.8-in per minute
ASTM D-1929 Self Ignition Temp.	Pass	Temperature at which Plastic will self ignite	650°F Minimum	716°F ignition temperature

PETG TESTING

Test	Rating	Measurable Data	Test Criteria	Test Results
ASTM D-2843 Smoke Density Rating	Pass	Density of Smoke from the Burning or Decomposition of Plastics	75% Maximum	4.8% Density
ASTM D-635 Combustion Rating	CCI	Rate, Extent and Time Of Burning Plastic in a Horizontal Position	Less than 2.5-in per minute continuous flame	.8-in per minute
ASTM D-1929 Self Ignition Temp.	Pass	Temperature at which Plastic will self ignite	650°F Minimum	716°F Ignition temperature
NFPA 286 Room Corner Burn Test (.236" thickness material)	Class A	Evaluation of room fire growth and contribution of wall & ceiling interior finish	Simulates real life fire two intense flame burners to simulate an increase in fire Numerous test criteria are analyzed to evaluate material performance	Pass, equivalent to Class A
ASTM E-84 Tunnel Test Surface Burning Characteristics (.236" thick material)	Class B	Surface burning Characteristics of building materials in a horizontal position	Flame Spread Index 0-25 (Class A) 26-75 (Class B) 76-100 (Class C) Smoke Development 450 Maximum (Class A, B & C)	Flame Spread Index: 60 Smoke Development Index: 450*