ACRYLONITRILE BUTADIENE STYRENE · FLAME RETARDANT

ABS D-1200

Flame-retardant ABS rated UL 94 V-0 at both 1/16" and 1/8" thicknesses. Designed for electrical enclosures, sockets and consumer-electronics housings where fire-safety compliance is a requirement.

- Flame Retardant
- Injection Molding
- Supplier: Zhenjiang Chi Mei

MATERIAL OVERVIEW

COMMERCIAL STATUS Available	FEATURE Flame Retardant (UL 94 V-0)
TYPICAL USES Electronics & electrical applications	PROCESSING METHOD Injection Molding
FORM Pellets	

TYPICAL APPLICATIONS

- Electrical enclosures
- Wall sockets & switches
- Power-distribution components
- Electronic device housings
- Consumer electronics

TECHNICAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTY	TEST CONDITION	VALUE	UNIT	TEST METHOD
Melt Flow Rate (MFR)	200 °C / 5,000 g	**5.0**	g/10 min	ASTM D1238
Density	23 °C (73 °F)	**1.17**	g/cm³	ASTM D792

MECHANICAL PROPERTIES

PROPERTY	TEST CONDITION	VALUE	UNIT	TEST METHOD
Rockwell Hardness	23 °C (73 °F), R-scale	**103**	R-scale	ASTM D785
Tensile Strength	50 mm/min, 23 °C (73 °F)	**45.1**	MPa	ASTM D638
Flexural Strength	15 mm/min, 23 °C (73 °F)	**73.5**	MPa	ASTM D790
Flexural Modulus	15 mm/min, 23 °C (73 °F)	**2.62**	GPa	ASTM D790
Izod Impact Strength	1/4" (6.35 mm), 23 °C (73 °F)	**196**	J/m	ASTM D256

THERMAL PROPERTIES

PROPERTY	TEST CONDITION	VALUE	UNIT	TEST METHOD
Heat Deflection Temperature	18.6 kg/cm² (264 psi)	**80**	°C	ASTM D648

FLAME RETARDANCY

PROPERTY	TEST CONDITION	VALUE	UNIT	TEST METHOD
Flammability Rating	1/16" (2.54 mm)	**V-0**	—	UL 94

PROPERTY	TEST CONDITION	VALUE	UNIT	TEST METHOD
Flammability Rating	1/8" thickness	V-0	—	UL 94

WL Plastics — Injection Molding Solutions

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FACTORY · Ningbo, Zhejiang, China

SPECIALTY · Dental consumables · Medical & industrial gas-control components

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