

Fluon[®] FP-AR-12022XL & Fluon[®] FP-AR-12024XL *Typical Properties*

DESCRIPTION

Fluon[®] FP-AR-12022XL (463131001) and Fluon[®] FP-AR-12024XL (463131002) are flexible compounds based on ethylene tetrafluoroethylene copolymer (ETFE) resin with a proprietary flexible additive and a cross-linking agent. These compounds are supplied in cylindrical pellet form, approximately 3.2 mm in length and 2.0 mm in diameter.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Units	FP-AR-12022XL	FP-AR-12024XL
Melt Flow Rate	ASTM D-1238	g/10 minutes	15.1	13.4
Bulk Density	ASTM D-1895	grams/liter	911	909
Dispersion Quality	AGC Internal	microns	<10	<10
Specific Gravity	ASTM D-792		1.67	1.50
Tensile Strength	ASTM D-638	MPa	60.8	43.5
Elongation	ASTM D-638	%	463	450
CIELAB L*	AGC Internal		70.92	71.27
CIELAB a*	AGC Internal		-1.20	-0.47
CIELAB b*	AGC Internal		3.16	3.29
TAIC Content	TGA	%	4.77	4.71
Melt Point	DSC	C°	254	253
Moisture Content	AGC Internal	%	<0.1	<0.1

PACKAGING

Fluon[®] FP-AR-12022XL and FP-AR-12024XL can be packaged in a polyethylene bag sealed in a fiber drum containing 100 kgs, or in an opaque polyethylene bag sealed in a plastic pail containing 10 kgs.

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END USES

Fluon® FP-AR-12022XL and FP-AR-12024XL are excellent compounds for extruded wire and cable insulation where good flexibility is required. They are also suitable for molded and extruded parts, including tubing, sheet and film.

PROCESSING

Fluon® FP-AR-12022XL and FP-AR-12024XL are ready-to-use and can be processed using conventional thermoplastic techniques, such as melt extrusion, under standard ETFE operating conditions.

HAZARDOUS SUBSTANCES

These products do not contain lead, hexavalent chromium, or cadmium, and are used in applications where RoHS (Restrictions on the use of Certain Hazardous Substances) compliance is required.

HANDLING PRECAUTIONS

Heating Fluon® products in excess of 750°F (399°C) can produce toxic fumes. It is, therefore, necessary to provide local exhaust ventilation in areas where Fluon® products are exposed to high temperatures. Avoid breathing fumes or contaminating smoking tobacco with fumes, powder, or dust.

Thermal decomposition of this product will generate hydrogen fluoride, which is corrosive. Corrosion resistance materials are required for prolonged contact with molten resin.

SAFE HANDLING INFORMATION

A summary of the hazards, as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200 for this product are:

Physical hazards: None

Health hazards: None

FOR ADDITIONAL INFORMATION AND HANDLING INSTRUCTIONS READ AGC CHEMICALS AMERICAS, INC. MATERIAL SAFETY DATA SHEET.

For more information and samples contact

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