

Data Sheet

Endura® FR-6799

Endura® Flame Retardant Polypropylene Copolymer

Endura® FR-6799 is a ready-to-use non-blooming polypropylene copolymer compound. It is designed for injection molding applications which require a UL-94 rating of V-2 at thicknesses of 0.062" or greater.

Endura® FR-6799 has a low specific gravity which can result in lower material costs for molded parts.

Endura® FR-6799 has been specifically formulated to essentially eliminate the possibility of surface bloom.

Applications

FR-6799 is designed for injection molding of battery casings and similar parts.

Preliminary Specifications*

Properties	Test method ASTM	Unit	English	Value
Mechanical properties				
Tensile Strength at Yield	ASTM D-638	psi		3450
Tensile Strength at Break	ASTM D-638	psi		2310
Tensile Elongation at Break	ASTM D-638	%		190
Flexural Modulus (0.05 in/min)	ASTM D-790	psi		201,000
Izod Notched Impact Strength 23°C	ASTM D-256	ft-lbs/in		2.3
Gardner Impact	ASTM D-5420	lb		200
Processing				
Nominal Melt Flow Rate	ASTM D-1238 'L'	g/10 min		14
Flammability				
UL 94 0.062 in	UL 94	class		V-2
Miscellaneous properties				
Density	ASTM D-792	g/cm ³		0.95
Heat Distortion Temp., 66 psi, °C				96
Heat Distortion Temp., 264 psi, °C	ASTM D-648			53

Handling and Use

Endura® flame-retardant concentrates are considered to be non-hazardous under normal conditions. Material Safety Data Sheets are available. You are encouraged to read and understand these documents before using the product. Since these products are used at elevated temperatures, fumes may be generated under some use conditions. Ventilation is necessary to minimize employee exposure to these fumes.

Packaging and Samples

Standard packaging for concentrates is in 1,000-lb boxes, lined and on pallets. Optional are 250-lb fiber drums and 50-lb bags. To meet particular needs, boxes up to 1,400 lb can be supplied. Samples are available on request.

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