

Data Sheet

Endura® FR-6780

Endura® Flame Retardant Polypropylene Copolymer

Endura® FR-6780 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-0 at thicknesses of 0.062" or greater.

Endura® FR-6780 has a low specific gravity which can result in lower material costs for molded parts.

Endura® FR-6780 has been specifically formulated to essentially eliminate the possibility of surface bloom.

Applications

Endura® FR-6780 is designed for injection molding of battery casings and similar parts.

Typical Properties*

Properties	Test method ASTM	Unit	English	Value
Mechanical properties				
Tensile Strength at Yield	ASTM D-638	psi		3500
Tensile Strength at Break	ASTM D-638	psi		2300
Tensile Elongation at Break	ASTM D-638	%		70
Flexural Modulus (0.05 in/min)	ASTM D-790	psi		173,000
Izod Notched Impact Strength, 23°C	ASTM D-256	ft-lbs/in		2.2
Gardner Impact	ASTM D-5420	lb		200
Processing				
Nominal Melt Flow Rate	ASTM D-1238 'L'	g/10 min		21
Flammability				
UL 94 (0.062 in)	UL 94	class		V-0
Miscellaneous properties				
Density	ASTM D-792	g/cm ³		0.97

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.

*Important: The descriptions, designs, and data contained herein are presented for your information only. Because there are many factors under your control which may affect processing or applications/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, and data furnished by Polymer Products hereunder are given gratis and Polymer Products assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk. Any laboratory flammability tests set forth herein are not intended to reflect hazards prescribed by materials under actual fire conditions. As governmental regulations and use conditions may change, it is the Buyer's responsibility to determine the suitability of Polymer Products' products for specific applications.