DuPont Packaging & Industrial Polymers

DuPont™ Entira™ AS MK 400

Entira™ AS resins Product Data Sheet

Description

Product Description	Entira™ AS MK400 is an extremely hygroscopic ionomer resin that is supplied as free-flowing pellets.

Restrictions

Material Status	• Commercial: Active

Typical Characteristics

Uses	• Industrial Applications Packaging
Features	Entira™ AS MK400 is used to lower the static decay time and surface resistivity of polyolefins and other polymers.
Characteristics / Benefits	Entira™ AS MK400 can be precompounded or dry blended into polymers for extrusion, molding, or various other processing methods
Applications	Antistatic agent for use in films, moldings, and extruded forms.

Typical Properties

Physical	Nominal Values	Test Method (s)	
Density ()	0.97 g/cm³	ASTM D792	ISO 1183
Melt Flow Rate (190°C/2.16kg)	1.0 g/10 min	ASTM D1238	ISO 1133

Thermal	Nominal Values	Test Method (s)	
Melting Point (DSC)	91°C (196°F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	61°C (142°F)	ASTM D3418	
Vicat Softening Point ()	59°C (138°F)	ASTM D1525	ISO 306

Processing Information

General

Maximum Processing Temperature	250°C (482°F)
General Processing Information	Entira™ AS MK 400 is a very hygroscopic material. To minimize exposure to moisture, any remaining material should be hermetically sealed in a barrier package immediately after use. The bag have as much air removed as possible prior to sealing. A vacuum to pull out the air can be used to assist this process. In order to reuse remaining material that has been hermetically sealed, the material should be dried under vacuum with a nitrogen flow at 50-60°C for several hours prior to use. Entira™ AS MK400 is available in pellet form for use in conventional equipment for processing polyolefins. Entira™ AS MK400 can be fed together with base polymers and other additives in the hopper during processing. Typical addition levels range from 10 - 30%.

FDA Status Information	Entira™ AS MK400 resin complies with the U.S. Food and Drug Administration Regulation 21 CFR 177.1330(a) -- Ionomeric resins, subject to the limitations and requirements therein. This Regulation describes polymers that may be in contact with food, subject to the finished food contact article meeting the extractive limitations under the intended conditions of use, as shown in paragraph (c) of the Regulation.
Regulatory Information	For information on compliance outside the USA please contact your local DuPont representative.
Safety & Handling	Entira™ AS MK400 as supplied by DuPont is not considered a hazardous material. As with any hot material, care should be taken to protect the hands and other exposed parts of the body when handling molten polymer. At recommended processing temperatures, small amounts of fumes may evolve from the resins. When resins are overheated, more extensive decomposition may occur. Adequate ventilation should be provided to remove the fumes from the work area. Disposal of scrap presents no special problems and can be by landfill or incineration in a properly operated incinerator. Disposal should comply with local, state, and federal regulations. Resin pellets can be a slipping hazard. Loose pellets should be swept up promptly to prevent falls. For more detailed information on the safe handling and disposal of DuPont resins, a Product Safety Bulletin and OSHA Material Safety Data Sheet can be obtained from the DuPont Packaging Products sales office serving you.

Read and Understand the Material Safety Data Sheet (MSDS) before using this product

Regional Centres

DuPont operates in more than 70 countries. For help finding a local representative, please contact one of the following regional customer contact centers:

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