DuPont™ Entira™ Strong 1002

Description

Product Description	DuPont™ Entira™ Strong 1002 is based on a copolymer of ethylene and methyl acrylate.

Product Characteristics

Processing Method	• Extrusion
Typical Applications	Entira™ Strong 1002 is used to modify the strength, toughness, and abrasion resistance of oriented PP, PET and PA. DuPont technical specialists are available by phone or email to further discuss application requirements and polymer selection.
Material Status	• Commercial: Active
Availability	• Globally
Manufacturer / Supplier	• DuPont Packaging & Industrial Polymers

Properties

Physical	Nominal Values	Test Method
Density	0.94g/cm³	ASTM D792 − ISO 1183
Melt Flow Rate (190°C/2.16 kg)	2g/10 min	ASTM D1238 − ISO 1133
Thermal	**Nominal Values**	**Test Method**
Melting Point (DSC)	91°C (196°F)	ASTM D3418 − ISO 3146
Vicat Softening Point (A50, 10N)	48°C (118°F)	ASTM D1525 − ISO 306

Processing Information

Extrusion Processing

Extrusion Processing Information	Entira™ Strong 1002 is available in pellet form for use in conventional extrusion equipment designed to process PP, PET, and PA resins. Entira™ Strong 1002 can be fed together with base resin and other additives in the hopper during the fiber spinning or film/tape extrusion process. Typical addition levels of Entira™ Strong 1002 range from 2−10 wt%. If the temperature at the hopper exceeds 60−70°C (140−158°F), bridging may occur. Water cooling of the screw and/or hopper feed throat may help avoid bridging problems. As long as the melt temperature does not exceed 300°C (572°F), the extrusion processing conditions do not have to be altered when using Entira™ Strong 1002.

Regulatory Information	DuPont™ Entira™ Strong 1002 Resin complies with the U. S. Food and Drug Administration regulation 21 CFR 177.1340 — Ethylene−methyl acrylate copolymer resins, for use in contact with all types of food, subject to meeting the migration limits specified in paragraph (b). Please contact DuPont for information about product compliance with other locally applicable regulations
Safety & Handling	The product should be stored in dry conditions at temperatures below 60°C and protected from UV light. Improper storage can initiate degradation with resulting odor generation and color changes. Entira™ Strong 1002 is a safe food−contact resin which, when used properly, does not require unusual procedures for safe handling. Dust and fines from the product may give a risk for dust explosion. All equipment should be properly earthed (electrically grounded). Inhalation of dust may irritate the respiratory system and should be avoided. During processing of the product small amounts of fumes are generated, which require proper ventilation. The product is suitable for recycling using modern methods of shredding and cleaning. In−house production waste should be kept clean to facilitate direct recycling. Material Safety Data (MSD) is available on request. Please contact your DuPont representative for more details on various aspects of safety, recovery and disposal of the product.

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

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This data sheet has not yet been approved.