

DuPont™ Fusabond® N525

Fusabond® resins Product Data Sheet

Description

Product Description DuPont™ Fusabond® N525 is an anhydride modified ethylene copolymer.

Restrictions

Material Status • Commercial: Active

Other Restrictions DuPont™ Fusabond® N525 can only be used in the following applications:
 (1) polyamide (nylon) blends
 (2) blends for golf ball components
 (3) blends for "compatibilizing flame retardant fillers in non-halogen flame retardant polyolefin-based wire and cable compounds"

Typical Characteristics

Uses • Polymer Modifier

Features

Glass Transition Temperature:
 (-48C) / (-54F) ----- ASTM D3418

Crystalline Melt Point:
 35C / 95F ----- ASTM D3418

Flexural Modulus (.05 in/min, 23C):
 3258psi (22MPa) ----- ASTM D790

Tensile Elongation @ Break (Type IV, 50mm/min, 23°C):
 587% ----- ASTM D638 / ISO 527-2

Tensile Elongation @ Break (Type IV, 500mm/min, 23°C):
 551% ----- ASTM D638 / ISO 527-2

Tensile Strength @ Break (Type IV, 50mm/min, 20C):
 2085psi (14MPa) ----- ASTM D638 / ISO 527-2

Tensile Strength @ Break (Type IV, 500mm/min, 23°C) :
 933psi (6MPa) ----- ASTM D638 / ISO 527-2

Durometer Hardness (D):
 30 ----- ASTM D2240 / ISO 868

Typical Properties

Physical	Nominal Values	Test Method(s)
Density ()	0.88 g/cm ³	ASTM D792 ISO 1183

Melt Flow Rate (190°C/2.16kg)	3.7 g/10 min	ASTM D1238	ISO 1133
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Thermal	Nominal Values	Test Method(s)	
Melting Point (DSC)	54°C (129°F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	42°C (108°F)	ASTM D1525	ISO 306

Processing Information

General

Maximum Processing Temperature 290°C (554°F)

Safety & Handling

As with any hot material, care should be taken to protect the hands and other exposed parts of the body when working with molten polymer.

At temperatures above 290°C (554°F), these resins can evolve low concentration of fumes. When resins are overheated, more extensive decomposition may occur. Because fumes produced during exposure to high temperatures may be combustible, exposure of overheated resin to atmospheric oxygen should be avoided if possible. Adequate local ventilation should be provided to remove the fumes from the work area.

Disposal of scrap material presents no special problems, and may be accomplished by landfill or by incineration by 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 these resins, a Product Safety Bulletin and OSHA Material Safety Data Sheets can be obtained from the Regional 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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