PRODUCT DATA SHEET

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High Density Polyethylene

HD5208 FLX

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High Load Melt Index: 9.0 g/10min

Density: 0.952 g/cm³

Features

- High molecular weight hexene copolymer HDPE with a bimodal molecular weight distribution.
- Excellent draw-down for thin films.
- Bubble stability for high rates.
- Good balance of stiffness and toughness.

Potential Applications

- Thin films for trash can liners, t-shirt bags, merchandise bags, produce bags and roll stock.
- Thick film for multi use applications.

Additives

- Antioxidant

Typical properties (not to be construed as specifications)		Value (English)	Value (SI)	Method
Resin Properties	Melt Index (190°C/2.16kg)	0.057 g/10min	0.057 g/10min	ASTM D1238
	High Load Melt Index (190°C/21.6 kg load)	9.0 g/10min	9.0 g/10min	ASTM D1238
	Density	0.952 g/cm³	0.952 g/cm³	ASTM D4883
Physical Properties	Tensile Strength at Yield MD	4500 psi	31 MPa	ASTM D882
	Tensile Strength at Yield TD	3900 psi	27 MPa	ASTM D882
	Tensile Strength at Break MD	11000 psi	76 MPa	ASTM D882
	Tensile Strength at Break TD	7000 psi	48 MPa	ASTM D882
	Elongation at Break MD	>250 %	>250 %	ASTM D882
	Elongation at Break TD	>350 %	>350 %	ASTM D882
	1% Secant Modulus MD	112000 psi	772 MPa	ASTM D882
	1% Secant Modulus TD	139000 psi	958 MPa	ASTM D882
	Dart Drop Impact	350 g	350 g	ASTM D1709
	Elmendorf Tear MD	37 g	37 g	ASTM 1922
	Elmendorf Tear TD	83 g	83 g	ASTM 1922

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Handling

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours.

Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight during storage.

Combustibility

Polyethylene resins will burn when supplied adequate heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources. In burning, polyethylene resins contribute high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water and water mist preferred. In enclosed areas, fire fighters should be provided with self contained breathing apparatus.

Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used:

1. be equipped with adequate filters
2. is operated and maintained in such a manner to ensure no leaks develop
3. that adequate grounding exists at all times

It is further recommended that good housekeeping is practiced throughout the facility.

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