

Technical Data Sheet

Product Description

FM LDPE 2420D

FM LDPE 2420D is a non-additivated, low density polyethylene for use in; Blown film; Extrusion blow molding and Injection blow molding. It has good processability, good tear strength and good toughness. Typical applications include: Bags, pouches, blown film, bottles for consumer goods, film and shrink film.

- This grade is suitable for food contact conform EEC regulation

Characteristic	Typical Value	Unit	Test Method
<i>Mass density (23°C)</i>	0.923	g/cm ³	ISO 1183
<i>MFR (190°C/2.16 kg)</i>	0.25	g/10min	ISO 1133
<i>Tensile Modulus</i>	260	MPa	ISO 527
<i>Tensile Stress @ Yield</i>	10.0	MPa	ISO 527
<i>Tensile Strength</i>	27 MD/25 TD	MPa	ISO 527
<i>Tensile Strain @ Break</i>	200 MD/500 TD	%	ISO 527
<i>Dart Drop Impact (50µm, Blown film)</i>	250	g	ASTM D 1709
<i>Vicat soft.temp. (A50(50°C/h 10N))</i>	96	°C	ISO 306
<i>Melting Temperature</i>	110	°C	ISO 3146
<i>Haze (50µm)</i>	<14	%	ASTM D 1003
<i>Gloss (20°, 50µm / 60°, 50µm)</i>	>15 / > 50		ASTM D 2457
<i>Film melt temperature</i>	170 / 220	°C	

Additional Properties Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 1:2.5. Failure Energy, DIN 53373, 70µm: 6.5 J/mm Coefficient of Friction, ISO 8295: >80% Recommended Thickness: 70 to 220 µm

Notes: Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data is accumulated. - ISO test methods are the latest under the society's current procedures. All specimens are prepared by injection-molding.

Handling, Health & Safety

Ensure proper ventilation of the work environment to minimize health and safety hazards from fine particles. Ensure machinery and equipment is properly grounded to prevent sparks that can ignite dust. Molten polymers will cause thermal injuries to organic matter please ensure safety glasses and appropriate safety apparel is worn.

Storage Conditions

Polyethylene products (in pelletized or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet causes a change in the materials properties. The Storage area should be dry and preferably not exceed 50 °C. Under cool, dry, dark conditions polyolefin resins are expected to maintain the original properties for at least 18 month. FM Plastics cannot be held responsible for diminishing qualities due to poor storage conditions, such as; color change, foul smell etc. Generally, it is considered best to process PE resin within 6 months after delivery.

Packing

Polyolefin resins are supplied in pellet form packed in 25kg bags on 1.375 kg pallets.



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