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High Density Polyethylene
Aramco HDPE F5101

Aramco Trading

Product Description

Aramco HDPE F5101 is a high molecular weight high density polyethylene resin and is typically used in for blown film process especially for thin film applications. This resin has broad molecular weight distribution that makes it easier to process. Films made from this resin typically exhibits high stiffness with excellent impact and toughness characteristics.

Typical Applications

Shopping bags, trash bags, industrial liners.

This product is not intended for use in medical and pharmaceutical applications.

Physical Properties		Unit	Test Method	Value[1]
Melt Flow Index (190°C/2.16kg)		g/10min	ASTM D1238	0.05
Melt Flow Index (190°C/21.6kg)		g/10min	ASTM D1238	9.3
Density		g/cm³	ASTM D792 Method A	0.951
Film Properties[2]				
Tensile Strength at Yield	MD	MPa	ASTM D882	35
	TD			30
Tensile Strength at Break	MD	MPa	ASTM D882	75
	TD			55
Tensile Elongation at Break	MD	%	ASTM D882	520
	TD			560
1% Secant Modulus	MD	MPa	ASTM D882	990
	TD			1140
Elmendorf Tear Strength	MD	gf	ASTM D1922	11
	TD			78
Dart Drop Impact		f	ASTM D1709	245
Thermal Properties[2]				
Vicat Softening Temperature @10N		°C	ASTM D1525	126

(1) Typical values only, not to be construed as specification limits
(2) Film fabrication conditions: Extruder 50mmϕ, Die 120mmϕ, Die Gap 1.35mm, Temp 200°C, Output 50kg/hr., BUR 4.0, Thickness 20µm, Neck Height 840mm

Processing conditions: Recommended melt temperature: 180 – 220 °C

Storage and handling: Aramco HDPE F5101 should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C

Food Contact and other Regulations: Aramco HDPE F5101 resins are suitable for food contact applications. Detailed information is provided in Material Safety Datasheet and for additional specific information, please contact Aramco Trading for certificates.

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