

HD5050-F High Density Polyethylene Resin

Applications:

T-Shirt Bags, produce bags, Industrial and trash can liners, roll stock

PRODUCT DESCRIPTION

HD5050-F is a certified prime , bimodal high density-polyethylene copolymer resin.The polymer is cleared for use in articles or components of articles intended for contact with food under 21 CFR 177.1520(c) and meets the specifications in that paragraph. While the adjuvants used in this product are cleared for food contact use under 21 CFR 170-189, ICD America makes no representation as to suitable use with respect to food type or conditions of use.

Properties*	Test Method	Metric Units		English	
		Typical Value	Unit	Typical Value	Unit
Melt Flow Index ²	ASTM D1238	0.06	g/10 min.	0.06	g/10 min
High Load Melt Index ³	ASTM D1238	9	g/10 min.	9	g/10 min
Density	ASTM D4883	0.9520	g/cc	0.9520	g/cc
Tensile Strength at Yield (MD)	ASTM D882	31	MPa	4500	psi
Tensile Strength at Yield (TD)	ASTM D882	27.0000	MPa	3900.0000	psi
Tensile Strength at Break (MD)	ASTM D882	76	MPa	11000	psi
Elongation at Break (MD)	ASTM D882	>250	%	>250	%
elongation at Break (TD)	ASTM D882	>350	%	>350	%
1% Secant Modulus (MD)	ASTM D882	772	MPa	112000	psi
1% Secant Modulus (TD)	ASTM D882	958	MPa	139000	psi
Dart Drop Impact	ASTM D1709	350	g	350	g
Elmendorf Tear (MD)	ASTM D1922	37	g	37	g
Elmendorf Tear (TD)	ASTM D1922	83	g	83	g

* Typical Value of Properties which can vary with in specification limits and are not to be construed as specifications.

²Condition 190°C/2.16 kg.

³Condition 190°C/21.6 kg.

This product is not intended for use in medical applications and should not be used in any such application

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