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HDPE FI0750

HIGH DENSITY POLYETHYLENE

DESCRIPTION

HDPE FI0750 is a high molecular High Density Polyethylene copolymer grade typically used for blown film applications. SABIC® HDPE FI0750 features are balance between toughness and stiffness, good impact properties with low gel level.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL APPLICATIONS

SABIC® HDPE FI0750 is typically used for blown film extrusion. Typical applications are heavy duty bags, grocery sacks, shopping bags, refuse bags, liners for multi-wall sacks and liners for frozen food meat. The grade can be blended with LLDPE and LDPE and can be used in co-extrusion process.

TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 21.6 kg	7.5	g/10 min	ISO 1133
at 190 °C and 5 kg	0.22	g/10 min	ISO 1133
Density	950	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Hardness Shore D	62	-	ISO 868
FILM PROPERTIES			
Tensile Properties ⁽¹⁾			
stress at break, MD	50	MPa	ISO 527-3
stress at break, TD	45	MPa	ISO 527-3
strain at break, MD	400	%	ISO 527-3
strain at break, TD	450	%	ISO 527-3
Dart Impact Strength			
F50	240	g	ASTM D1709
Elmendorf Tear Strength			
MD	250	mN	ISO 6383-2
TD	450	mN	ISO 6383-2
THERMAL PROPERTIES			
Brittleness Temperature	<-80	°C	ASTM D746
Vicat Softening Temperature			
at 50 N (VST/B)	75	°C	ISO 306/B

(1) Properties have been measured based on 20µm blown film with a BUR of 4 using 100% FI0750.