

Technical Datasheet of High Density Polyethylene HDPE EX5

Equivalents: SABIC-F00851, GM 9450F

Description:

“EX5” (9450 F) is a high molecular weight high density polyethylene with 1-Butene as co monomer. It combines good stiffness and tenacity.

Typical data:

Property	Test method	Unit	value
Mass density (23°C)	ISO 1183	g/cm ³	0.949
Melt Flow Rate (190°C/5kg)	ISO 1133	g/10min	0.28
Melt Flow Rate (190°C/21.6kg)	ISO 1133	g/10min	8
Stress at yield	ISO 527	MPa	24
Stress at Break	ISO 527	MPa	35
Softening Temperature	ISO 306	°C	75
Brittle Temperature	ASTM D746-72	°C	< - 80
Shore D hardness	ISO 868	--	60
Application Properties**			
Max. Tensile strength MD/TD	ISO 527	MPa	45/40
Tear strength MD/TD	ISO 6383-2	mN	200/450
Max. elongation MD/TD	ISO 527	%	400/450
Dart Drop Impact	ASTM D1709	g	220

** Blown film: thickness 20 µm, extruded at melt temperature of 200°C and a blow up ratio 4:1


Applications:

Film extrusion, food grade, blown films with paper like quality, counter bag, carrier bag, wrapping films



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