

SABIC® HDPE B5209

High Density Polyethylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC®HDPE B5209 is a high-density polyethylene copolymer product. It can be processed by blow molding or sheet extrusion molding and is available in Europe. SABIC®The application fields of HDPE B5209 include thin plates, industrial applications, cans and containers.

Features include:

high molecular weight

High resistance to environmental stress fracture (ESCR)

Copolymer

Good processability

accessible food

General Information			
Features	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Copolymer		
	Impact resistance, high		
	Workability, good		
	Compliance of Food Exposure		
	Medium wide molecular weight distribution		
Uses	Blow molding applications		
	Industrial application		
	Sheet		
	Container		
	Fuel Tank		
Forms	Particle		
Processing Method	Blow molding		
	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.050	g/10 min	ASTM D1238
190°C/21.6 kg	9.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	1200	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	65		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Compression Molded)	1200	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, molding	30.0	MPa	ASTM D638
Fracture, molding	38.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	850	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	240	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525 ¹
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 220	°C	
NOTE			

1. 压力1 (10N)

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WECHAT