Data Sheet
29/04/2021

High Density Polyethylene SGF4950

Description:

SGF4950 is a high-density polyethylene copolymer, developed for the blow-molding segment. It shows well balanced properties between impact and stiffness, combined with high environmental stress cracking resistance and processability. The minimum biobased carbon content of this grade is 96%, determined according to ASTM D6866.

Aplicações:

Tissue and hygiene packaging, Blow molding small volumes, Cosmetic packaging

Processos:

Compression Molding, Extrusion Blow Molding

Control Properties:

Característica	Método	Unidades	Valores
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.34
Density	D 792	g/cm³	0.956

Typical Properties:

Plaque Properties

Característica	Método	Unidades	Valores
Melt Flow Rate (190°C/21,6kg)	ASTM D 1238	g/ 10 min	28
Tensile Strength at Yield (a)	ASTM D 638	MPa	30
Tensile Strength at Break (a)	ASTM D 638	MPa	30
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	1250
Tensile Impact Strength ISO at 23 °C	ISO 8256	kJ/m²	110
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	ASTM D 1693	h/F50	30
Deflection Temperature under Load at 0.455 MPa (b)	ASTM D 648	°C	70
Vicat Softening Temperature at 10 N (b)	ASTM D 1525	°C	127

Typical properties correspond to average values obtained in our laboratories. Test specimens prepared from compression molded sheet made according to ASTM D 4703. Thickness of test piece: a) 2 mm; b) 3 mm.

Final Remarks

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