Borstar® FB3450

High Density Polyethylene

Borealis AG

Message:

Borstar FB3450 is a high density polyethylene
Borstar FB3450 is well suited for multilayer coextruded films where higher stiffness and toughness than in standard LDPE and LLDPE is recommended
Borstar FB3450 has been developed especially for applications like:
Blending
General packaging film
Borstar FB3450 contains antioxidant.

General Information	
Additive	Antioxidation
Features	Rigid, good Antioxidation Recyclable materials Good toughness
Uses	Packaging Films Mixing
Agency Ratings	EC 1907/2006 (REACH)
Forms	Particle
Processing Method	Film extrusion Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	ISO 1133
190°C/21.6 kg	25	g/10 min	ISO 1133
190°C/5.0 kg	1.1	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Dynamic)	0.40		ISO 8295
Tear Resistance			ISO 6383-2
Elmendorf MD	20.0	kN/m	ISO 6383-2
Elmendorf TD	150.0	kN/m	ISO 6383-2
Instrumented Puncture Test - Total Penetration Energy	80.0	J/cm	ISO 7765-2
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-3

MD: 40 µm, blown film	550	MPa	ISO 527-3
TD: 40 µm, blown film	750	MPa	ISO 527-3
Tensile Strength			ISO 527-3
MD: 40 µm, blown film	60.0	MPa	ISO 527-3
TD: 40 µm, blown film	50.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	500	%	ISO 527-3
TD: Broken, 40 µm, blown film	800	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	80	g	ISO 7765-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	129	°C	ISO 11357-3
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss	7		ASTM D2457
Haze	75	%	ASTM D1003
Additional Information			
The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	200 - 210	°C	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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