

EvoSource™ ABS 4535 90/05

Acrylonitrile Butadiene Styrene
MBA Polymers

Message:

A UL-HB recognized, easy flowing, post-consumer recycled acrylonitrile-butadiene-styrene copolymer for general use. Available in deep black (reference 90/05).

General Information			
UL YellowCard	E226591-100590212		
Recycled Content	Yes		
Features	Copolymer		
	Good Flow		
Uses	General Purpose		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	23	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2350	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	41.0	MPa	ISO 527-2/50
Flexural Modulus (23°C)	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	14	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
High Amp Arc Ignition (HAI) (1.50 to 2.80 mm)	PLC 1		UL 746
Hot-wire Ignition (HWI) ¹ (1.50 to 2.80 mm)	PLC 4		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 to 2.80 mm)	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	80.0	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050 to 0.10	%
Processing (Melt) Temp	210 to 250	°C
Mold Temperature	40.0 to 60.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050 to 0.10	%
Melt Temperature	200 to 220	°C
NOTE		

1. ASTM D 3847

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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

