

# SCLAIR® 78E

High Density Polyethylene  
NOVA Chemicals

Message:

SCLAIR® 78E is a High Density Polyethylene material. It is available in North America for blow molding.  
Important attributes of SCLAIR® 78E are:  
Antioxidant  
Food Contact Acceptable  
High ESCR (Stress Crack Resistant)  
High Stiffness  
Impact Resistant  
Typical applications include:  
Containers  
Food Contact Applications  
Packaging

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	High Stiffness		
	Blow Molding Applications		
	Containers		
	Food Packaging		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.957	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.41	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	100	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	31.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Break <sup>2</sup>	860	%	
Break <sup>3</sup>	50	%	

Flexural Modulus	1170	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
NOTE			
1.	500 mm/min		
2.	50 mm/min		
3.	500 mm/min		

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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

