

# Sanren I180E (1st-grade)

Polypropylene Homopolymer  
SINOPEC Shanghai Petrochemical Co. Ltd.

Message:

The pellet product is colourless and in the shape of a cylinder with satisfied light transmittance, high strength, high abrasion resistance and impact resistance, excellent stress-fracture resistance, chemical stability and insulating characteristics, as well as fairly good heat resistance.  
Scope of Application: Heat shrinkable film.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High strength		
	Homopolymer		
	Impact resistance, high		
	Good wear resistance		
	Heat resistance, medium		
Uses	Films		
	Shrinkable film		
Appearance	Colorless		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.4 - 2.2	g/10 min	Internal method
Ash Content		%	
Fish Eye			
400.0 μm	11.0 - 20.0	pcs/1520 cm <sup>2</sup>	
800.0 μm	1.10 - 3.00	pcs/1520 cm <sup>2</sup>	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	> 23.5	MPa	ASTM D638
Flexural Modulus	> 630	MPa	Internal method
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	> 20	J/m	Internal method
Optical	Nominal Value	Unit	Test Method
Haze	< 2.0	%	Internal method
Yellowness Index	< 4.0	YI	Internal method
Additional Information	Nominal Value	Unit	
Cleanliness: 6-10 pieces/kg			

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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

