



Plastics and Resins

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Product Name:	Low-density Polyethylene Resin (N110)																																																																																														
Trade Mark:	Sanren Brand																																																																																														
Alternative Name:	High-pressure polyethylene																																																																																														
Molecular formula/Structural Formula:	□																																																																																														
Production Process:	The product is made by polymerization of ethylene monomer under high temperature and high pressure. The polymer produced is of homo-polyethylene type.																																																																																														
Properties:	The oblate pellet product is colourless with excellent chemical stability. It possesses certain mechanical and good water-proof properties, as well as air permeability.																																																																																														
Grade:																																																																																															
National Standard Grade:	PE-GAS-18D012																																																																																														
Enterprise Standard Grade:	N110																																																																																														
Specifications:	Q/SH012.07.05-1995 LDPE Resin																																																																																														
	<table><tr><th rowspan="2">No.</th><th rowspan="2">Item</th><th rowspan="2">Unit</th><th colspan="3">Quality Criteria</th><th rowspan="2">Testing Method</th></tr><tr><th>premium-grade</th><th>1st-grade</th><th>On spec.</th></tr><tr><td>1</td><td>Cleanliness</td><td>Pieces/kg <=</td><td>15</td><td>15</td><td>20</td><td>GB11115</td></tr><tr><td>2</td><td>Melt flow rate</td><td>g/10min</td><td colspan="3">1.0(+0.3)</td><td>GB11115</td></tr><tr><td>3</td><td>Density(23ℓ)</td><td>g/cm³</td><td colspan="2">0.9200(+0.001)</td><td>0.9200(+0.0015)</td><td>GB11115</td></tr><tr><td>4</td><td>Fish-eye(0.3-2mm)</td><td>pieces/1200cm² <=</td><td>15</td><td>20</td><td>30</td><td>GB11115</td></tr><tr><td>5</td><td>Fish-eye(0.5-2mm)linking</td><td>pieces/20cm² <=</td><td colspan="3">390</td><td>Q/SH012.07.05</td></tr><tr><td>6</td><td>Impurity(≥0.1mm)</td><td>pieces/100g <=</td><td colspan="3">19</td><td>Q/SH012.07.05</td></tr><tr><td>7</td><td>Streaks</td><td>grade <=</td><td colspan="3">B</td><td>Q/SH012.07.05</td></tr><tr><td>8</td><td>Haze</td><td>% <=</td><td colspan="3">23</td><td>GB11115</td></tr><tr><td>9</td><td>Water content</td><td></td><td colspan="3">On-spec.</td><td>Q/SH012.07.05</td></tr><tr><td>10</td><td>Hue</td><td><=</td><td colspan="3">-16</td><td>Q/SH012.07.05</td></tr><tr><td>11</td><td>Tensile strength</td><td>Mpa >=</td><td colspan="3">12.5</td><td>GB11115</td></tr><tr><td>12</td><td>Elongation at break</td><td>% >=</td><td colspan="3">550</td><td>GB11115</td></tr></table>	No.	Item	Unit	Quality Criteria			Testing Method	premium-grade	1st-grade	On spec.	1	Cleanliness	Pieces/kg <=	15	15	20	GB11115	2	Melt flow rate	g/10min	1.0(+0.3)			GB11115	3	Density(23ℓ)	g/cm³	0.9200(+0.001)		0.9200(+0.0015)	GB11115	4	Fish-eye(0.3-2mm)	pieces/1200cm² <=	15	20	30	GB11115	5	Fish-eye(0.5-2mm)linking	pieces/20cm² <=	390			Q/SH012.07.05	6	Impurity(≥0.1mm)	pieces/100g <=	19			Q/SH012.07.05	7	Streaks	grade <=	B			Q/SH012.07.05	8	Haze	% <=	23			GB11115	9	Water content		On-spec.			Q/SH012.07.05	10	Hue	<=	-16			Q/SH012.07.05	11	Tensile strength	Mpa >=	12.5			GB11115	12	Elongation at break	% >=	550			GB11115
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Scope of Application:	Agricultural film																																																																																														
Major Applications:																																																																																															
Process Method:	Blow moulding																																																																																														
Packing:	Heavy duty PE bag as inner packaging and PP woven bag as outer packaging; Each bag has a net weight of 25kg.																																																																																														
Packing Size:	Converted dimensions 550mm×850m, or big package																																																																																														
Storage:	The product should be stored in a dry, well ventilated warehouse. To avoid direct sunlight, the product should not be stored in the open air.																																																																																														
Transportation:	By means of truck, vessel or train. During transportation the product should not be exposed to the sunlight and rain. Neither should the product be mixed with contaminants. There should be no heavy bump or unloading by throwing the bags.																																																																																														
Safety Precautions:	1. Be away from fire and heat sources. 2. Should not be stored or transported together with chemicals and inflammables. 3. Warehouse must be equipped with extinguishers or fire-fighting device. 4. Water, carbon dioxide, dry powder or 1211 can be used as extinguishers for the product.																																																																																														

