



Plastics and Resins

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Product Name:	Low-density Polyethylene Resin (Q281)						
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. Under the normal conditions, the product is acid resistant, alkali resistant, and salt resistant. It possesses certain mechanical properties and light transmittance.						
Grade:							
National Standard Grade:	PE-FSBA-23D022-A						
Enterprise Standard Grade:	Q281						
Specifications:	Q/SH012.07.05-1995 LDPE Resin						
	No.	Item	Unit	Quality Criteria			Testing Method
				premium-grade	1st-grade	On-spec.	
	1	Cleanliness	Pieces/kg ≤	10	15	20	GB11115
	2	Melt flow rate	g/10min	2.8(+0.4)			GB11115
	3	Density(23ℓ)	g/cm³	0.9250(+0.001)		0.9250(+0.0015)	GB11115
	4	Fish-eye(0.3-2mm)	pieces/1200cm² ≤	8	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	% ≤	13.0	14.0	15.0	GB11115
	9	Blocking	N/2cm² ≤	2.2	3.0	4.0	Q/SH012.07.05
	10	Water content		On-spec.			Q/SH012.07.05
	11	Hue	≤	-16			Q/SH012.07.05
	12	Tensile yield strength	Mpa ≥	11.0			GB11115
	13	Elongation at break	% ≥	550			GB11115
Scope of Application:	Light-duty / laminated film and small size injection mouldings.						
Major Applications:							
Process Method:	Blow moulding, extrusion or injection 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.						

