

KGT 345 is a low density polyethylene, with good toughness and good optical properties. It typically exhibits low friction and low blocking. It has been manufactured under SABTEC licensed technology.

Applications

- Injection molded articles (toy, cap, household articles, etc.)
- Base resin for masterbatch

Additives

- Antioxidant: Yes
- Anti-block: No
- Slip Agent: No

Resin properties	Typical Value	Unit	Test Method
Physical			
Melt Flow Rate (190°C/2.16Kg)	22	dg/min	ISO 1133
Density	919	Kg/m ³	ISO 1183
Mechanical			
Stress at Yield	8	MPa	ISO 527-1,2
Stress at Break	7	MPa	ISO 527-1,2
Strain at Break	400	%	ISO 527-1,2
Tensile Modulus	175	MPa	ISO 527-1,2
Creep Modulus (After 1 hour)	80	MPa	ISO 527-1,2
Creep Modulus (After 1000 hour)	45	MPa	ISO 899
Notched Izod at +23°C	42	kJ/m ²	ISO 180 A
Notched Izod at -30 °C	5	kJ/m ²	ISO 180 A
Tensile Impact Strength (Notched, Type 1, Method 1B, -30°C)	86	kJ/m ²	ISO 8256/1B
Hardness Shore D	45	----	ISO 868
Ball Indentation Hardness	16	MPa	ISO 2039-1
ESCR	3	hr	SABTEC
Thermal			
Deflection Temperature Under Load (0.45 MPa)	39	°C	ISO 75
Vicat Softening Temperature (Method A/10N)	82	°C	ISO 306
Melting Temperature	105	°C	ISO 3146
Melting Enthalpy	104	J/g	ISO 3146