

Moldman Systems LLC  
4649 Aircenter Circle, Ste. 101  
Reno, Nevada 89502Main 775-332-1600  
Fax 775-332-1601[moldmansystems.com](http://moldmansystems.com)  
[contactus@moldmansystems.com](mailto:contactus@moldmansystems.com)

## Elemelt Technical Data Sheet **TC-960-0RK30-B**

Elemelt TC-960-0RK30-B is a high molecular weight copolyester resin designed for low pressure molding with good adhesion. This resin has the characteristics of a short open time with a high melting point. Application temperature is 180-210°C which is ideal for PCB encapsulation and durability. This product is available in black.

### 1. TYPICAL SPECIFICATIONS

Appearance	: Black-pellet black color
Melting Point(°C)	: 160 ~ 170
Viscosity(dPa·s/220°C)	: 100~200
Acid Value (mg-KOH/gm)	: 3 Max
Specific Gravity	: 1.05
Flame Retardance(UL-94)	: V-2 Equivalent

### 2. ELECTRICAL PROPERTIES

( $\Omega \cdot \text{cm}/20^\circ\text{C}$ )	: $8.7 \times 10^{12}$
Breakdown Strength(kV/mm)	: 16

### 3. WORKING TEMPERATURE RANGE

Heat Resistance	: 85°C 1000hr
Heat Cycle	: -40~85°C 1000HR
Heat /Humidity Resistance	: 85°C85%RH 1000HR

### 2. SHORE-A HARDNESS

Measured Temperature °C	Shore-A Hardness
23	85

**2. PEEL STRENGTH**

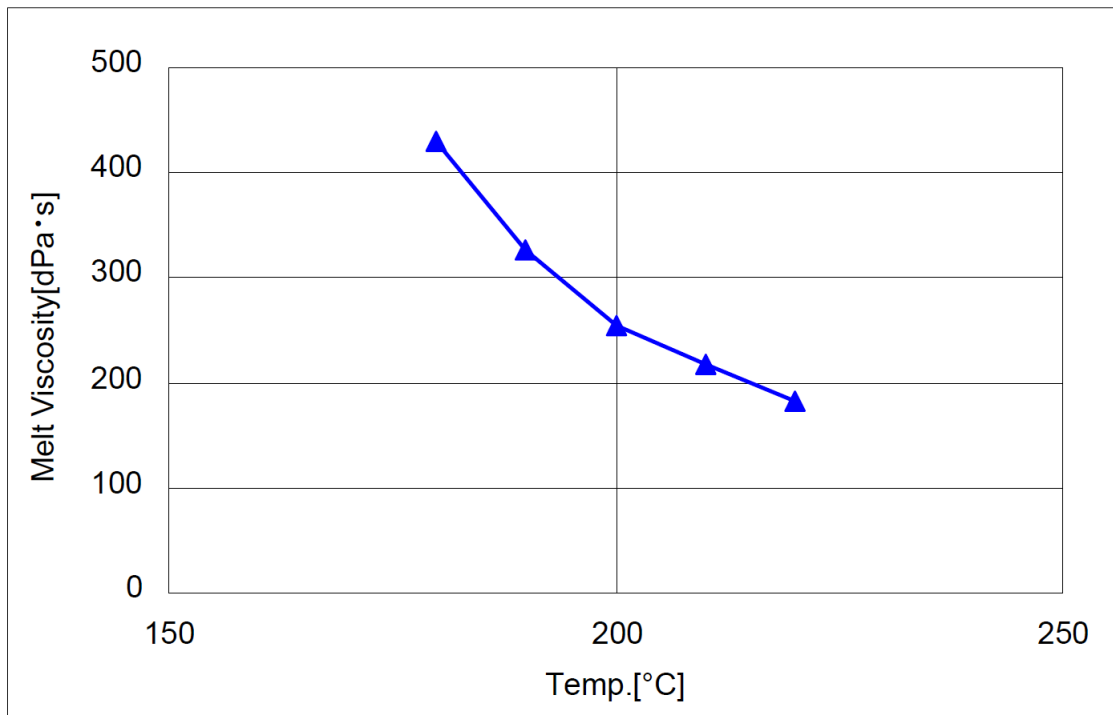
Specimen	Peel Strength(N/25mm)
PBT	70
Glass Epoxy	120
SUS-304	100
Al	90
Cu	90

Tensile Speed : 50mm/min., at 23°C50%RH

**3. WATER ABSORPTION**

Water Absorption(%) : 0.4(RH23°C 50%,1Day)

**4. VISCOSITY CURVE VERSUS TEMPERATURE**



**5. APPLICATION TEMPERATURE**

180°C ~210°C

## 6. PACKAGING

20 kg net, paper bag.

## 7. STORAGE CONDITIONS

Store in sealable container once shipping bag has been opened. Copolyesters are sensitive to high humidity and will absorb atmospheric moisture. Be sure to dry polyester resin at 60°C for more than 4 hours before use. Shelf life is 6 months with proper storage and at a temperature below 30°C.

### Note:

Our data and recommendations in this sheet do not constitute a warranty or representation for which we assume legal responsibility. They are offered only for your reference, investigation and verification, not guaranteed values.

Before using this product, please check or study carefully, that this grade is suitable for your purpose, application and process condition, etc.