

TECHNICAL DATASHEET

TRIEX[®] HI3017U

PC

PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity	-	D792	1.20
Water Absorption (24 hours at 23°C)	%	D570	0.15
Melt Flow Rate (300°C, 1.2kg)	g/10min	D1238	30
MECHANICAL			
Tensile Strength at yield	kgf/cm ²	D638	650
Tensile Elongation at break	%	D638	110
Flexural Strength at yield	kgf/cm ²	D790	900
Flexural Modulus	kgf/cm ²	D790	22,000
Izod Impact Strength, notched, 23°C (1/8")	kgf·cm/cm	D256	60
Rockwell Hardness	R scale	D785	120
THERMAL			
HDT, 18.6 kgf/cm ²	°C	D648	128
Coefficient of Linear Thermal Expansion	mm/mm/°C	D696	5~7 x 10 ⁻⁵
ELECTRICAL			
Volume Resistivity	Ω·cm	D257	4E+16
Dielectric Strength	kV/mm	D149	30
Dielectric Constant	-	D150	2.85
Dissipation Factor	-	D150	0.0092
ARC Resistance	sec	D495	120
OTHERS			
Mold Shrinkage (3mm thickness)	%	D955	0.5~0.7

※ The figures listed in this table are typical values obtained under the standard test methods and may not be applicable for products that are under different application condition.

PROCESSING GUIDE

TRIREX[®] HI3017U GRADE

PC

- General processing conditions for TRIREXHI3017U are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	℃	120
Drying Time	hr	3~4
Moisture Content, Max	%	0.02
Melt Temperature	℃	280~300
Nozzle Temperature	℃	270~300
Front Temperature	℃	280~300
Middle Temperature	℃	260~290
Rear Temperature	℃	250~280
Mold Temperature	℃	50~80
Back Pressure	MPa	0.4~0.6
Screw Speed	rpm	50~70
Vent Depth	mm	0.02~0.08
Injection Pressure	MPa	70~140
Injection Speed	%	50~80
Injection Cushion	mm	3~6

Global Network

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