TECHNICAL DATASHEET

TRIEL® 5451BM

TPEE

PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity	-	D792	1.16
Water Absorption (24 hours at 23℃)	%	D570	0.5
Melt Flow Rate (230℃, 10kg)	g/10min	D1238	7
MECHANICAL			
Tensile Strength at yield	$kg_f/㎠$	D638	130(@50%)
Tensile Elongation at break	%	D638	>400
Flexural Strength at yield	$kg_f/㎠$	D790	60
Flexural Modulus	$kg_f/㎠$	D790	920
Izod Impact Strength, notched, 23℃ (1/8")	$kg_f·㎝/㎝$	D256	No Break
Hardness (Shore D)	Shore D		45
THERMAL			
HDT, 4.6 kgf/㎠	℃		75
Vicat softening temperature	℃		160
ELECTRICAL			
OTHERS			
Mold Shrinkage (3mm thickness)	%	D955	1.5~1.7

※ 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

TRIEL® 5451BM GRADE

TPEE

- General processing conditions for TRIEL5451BM are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	℃	100~110
Drying Time	hr	3~4
Moisture Content, Max	%	0.02
Melt Temperature	℃	190~220
Nozzle Temperature	℃	190~220
Front Temperature	℃	190~220
Middle Temperature	℃	190~220
Rear Temperature	℃	170~200
Mold Temperature	℃	30~50
Back Pressure	MPa	0.0~0.1
Screw Speed	rpm	10~50
Vent Depth	mm	0.02~0.08

Global Network

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