TECHNICAL DATASHEET

TRIEL® 5301SP

TPEE

PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity	-	D792	1.10
Water Absorption (24 hours at 23℃)	%	D570	0.5
Melt Flow Rate (230℃, 2.16kg)	g/10min	D1238	22~28
Melt Flow Rate (240℃, 2.16kg)	g/10min		37~40
MECHANICAL			
Tensile Strength at yield	$kg_f/㎠$	D638	35(@5%), 50(@10%), 75(@50%), 130(@Max load)
Tensile Elongation at break	%	D638	>400
Flexural Strength at yield	$kg_f/㎠$	D790	23.0
Flexural Modulus	$kg_f/㎠$	D790	365.0
Izod Impact Strength, notched, 23℃ (1/8")	$kg_f·㎝/㎝$	D256	No Break
Hardness (Shore D)	Shore D		30.0
THERMAL			
HDT, 4.6 ㎏f/㎠	℃		52.0
Vicat softening temperature	℃		107.0
ELECTRICAL			
OTHERS			
UL-94 Flammability (1/16" thickness)	-	(UL 94)	HB
Mold Shrinkage	%		1.8

※ 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® 5301SP GRADE

TPEE

- General processing conditions for TRIEL5301SP are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	℃	90~100
Drying Time	hr	3~4
Moisture Content, Max	%	0.02
Melt Temperature	℃	180~210
Nozzle Temperature	℃	180~210
Front Temperature	℃	180~210
Middle Temperature	℃	180~210
Rear Temperature	℃	170~190
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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