

TR557

Injection Molding

Description

- Transparency, High Impact

Applications

- Electric & Electronic Products

Properties	Method	Unit	TR557
Physical			
Specific Gravity , 23°C	ASTM D792		1.09
Mold Shrinkage , 23°C, 3.2mm , 23°C	ASTM D955	%	0.4 ~ 0.7
Melt Flow Rate , 220°C, 10kg	ASTM D1238	g/10min	21
Mechanical			
Tensile Strength at Yield , 23°C, 50mm/min, 3.2mm	ASTM D638	Mpa	48
Tensile Elongation at Yield , 23°C, 50mm/min, 3.2mm	ASTM D638	%, (Min)	5
Tensile Elongation at Break , 23°C, 50mm/min, 3.2mm	ASTM D638	%, (Min)	15
Tensile Modulus , 23°C, 50mm/min, 3.2mm	ASTM D638	MPa	2050
Flexural Strength , 23°C, 15mm/min, 3.2mm	ASTM D790	Mpa	71
Flexural Modulus , 23°C, 15mm/min, 3.2mm	ASTM D790	MPa	2250
Izod Impact Strength , Notched, 3.2mm, 23°C	ASTM D256	J/m	165
Izod Impact Strength , Notched, 3.2mm, -30°C	ASTM D256	J/m	55
Izod Impact Strength , Notched, 6.4mm, 23°C	ASTM D256	J/m	165
Izod Impact Strength , Notched, 6.4mm, -30°C	ASTM D256	J/m	55
Rockwell Hardness , R-Scale	ASTM D785		107
Thermal			
HDT , Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	°C	81
VICAT , 50N, 50°C/h	ASTM D1525	°C	89
RTI Electrical	UL 746B	°C	50
RTI Mechanical with Impact	UL 746B	°C	50
RTI Mechanical without Impact	UL 746B	°C	50
Flammability, 1.5mm	UL 94		HB
Flammability, 3.0mm	UL 94		HB
Optical			
Haze	ASTM D1003	%	2
Luminous Transmittance , 3.2mm	ASTM D1003	%	90

Note

Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors. Values given should not be interpreted as specification and not be used for designing part or tool. All properties, except melt flow rate are measured by injection molded specimens after 48 hours storage at 23°C, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	°C	80 ~ 90
Drying Time	hrs	2 ~ 4
Minimum Moisture Content	%	0.01 ~ 0.01
Melt Temperature	°C	190 ~ 220
Cylinder Temperature , Rear	°C	180 ~ 200
Cylinder Temperature, Middle	°C	190 ~ 210
Cylinder Temperature , Front	°C	200 ~ 220
Nozzle Temperature	°C	190 ~ 220
Mold Temperature	°C	40 ~ 60
Back Pressure, Hydraulic Type	kg/cm ²	30 ~ 60
Screw Speed	rpm	30 ~ 60

Note

Back Pressure & Measuring Speed are only mentioned as general guidelines. These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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