SolutionPartner

LG Chem

TR557

Description

TR557 is a Transparent ABS product for injection molding, designed to have transparency and high impact strength.

Key Features

Transparency, High Impact Strength

Application

Washing Machine, Refrigerator, Electrical/Electronic Products, Miscellaneous Goods

Properties	Condition	Method	Unit	TR557
Physical				
Specific Gravity	23℃	ASTM D792		1.09
Mold Shrinkage	23℃, 3.2mm	ASTM D955	%	0.4 ~ 0.7
Melt Flow Index	220℃, 10kg	ASTM D1238	g/10min	21
Mechanical				
Tensile Strength at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	48
Tensile Elongation at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	5
Tensile Elongation at Break	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	15
Flexural Strength	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	71
Flexural Modulus	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	2250
Izod Impact Strength	Notched, 3.2mm, 23℃	ASTM D256	J/m	165
Izod Impact Strength	Notched, 3.2mm, -30℃	ASTM D256	J/m	55
Izod Impact Strength	Notched, 6.4mm, 23℃	ASTM D256	J/m	165
Izod Impact Strength	Notched, 6.4mm, -30℃	ASTM D256	J/m	55
Rockwell Hardness	R-Scale	ASTM D785		107
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	℃	81
Heat Deflection Temperature	Edgewise, 0.46MPa, 6.4mm, Unannealed	ASTM D648	℃	89
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Annealed	ASTM D648	℃	87
Heat Deflection Temperature	Edgewise, 0.46MPa, 6.4mm, Annealed	ASTM D648	℃	92
Vicat Softening Temperature	50N, 50℃/h	ASTM D1525	℃	89
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 index are measured by injection molded specimens after 48 hours storage at 23℃, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	℃	70 ~ 80
Drying Time	hrs	3 ~ 4
Injection Temperature	℃	200 ~ 250
Mold Temperature	℃	40 ~ 80
Screw Speed	rpm	30 ~ 60

Note

Injection Temperature & Screw 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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