+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)

SolutionPartner



TR551

Description

TR551 is a Transparent ABS product for injection molding, designed to have good transparency, high stiffness and hardness.

Key Features

Transparency, High Hardness, High Stiffness

Application

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

Properties	Condition	Method	Unit	TR551
Physical		,		
Specific Gravity	23°C	ASTM D792		1.12
Mold Shrinkage	23°C, 3.2mm	ASTM D955	%	0.4 ~ 0.7
Melt Flow Index	220°C, 10kg	ASTM D1238	g/10min	8
Mechanical				
Tensile Strength at Yield	23°C, 50mm/min, 3.2mm	ASTM D638	MPa	59
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
Flexural Strength	23°C, 10mm/min, 6.4mm	ASTM D790	MPa	96
Flexural Modulus	23°C, 10mm/min, 6.4mm	ASTM D790	MPa	2850
Izod Impact Strength	Notched, 3.2mm, 23°C	ASTM D256	J/m	125
Izod Impact Strength	Notched, 3.2mm, -30°C	ASTM D256	J/m	40
Izod Impact Strength	Notched, 6.4mm, 23°C	ASTM D256	J/m	120
Izod Impact Strength	Notched, 6.4mm, -30°C	ASTM D256	J/m	40
Rockwell Hardness	R-Scale	ASTM D785		117
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	°C	87
Heat Deflection Temperature	Edgewise, 0.46MPa, 6.4mm, Unannealed	ASTM D648	°C	95
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Annealed	ASTM D648	°C	93
Heat Deflection Temperature	Edgewise, 0.46MPa, 6.4mm, Annealed	ASTM D648	°C	98
Vicat Softening Temperature	50N, 50°C/h	ASTM D1525	°C	95
Optical				
Haze		ASTM D1003	%	1.9
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.

 $All\ properties,\ except\ melt\ flow\ index\ are\ measured\ by\ injection\ molded\ specimens\ after\ 48\ hours\ storage\ at\ 23^\circ\!C,\ 50\%\ relative\ humidity.$

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Processing Guide (Injection Molding)

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

Note

Injection Temperature & Drew 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.