

Polycarbonate Grade HS152U

General information

Characteristic	: Low viscosity, Good demolding performance, UV resistance
Application	: General Use
Appearance	: Clear/Transparent
Form	: Pellet
Processing Method	: Extrusion molding, Injection molding

Main Performance

Physical	Typical Value	Unit	Test Standard
Melt Flow Rate(300°C/1.2kg)	15±2	g/10min	(GB/T 3682.1-2018)
Density	1200	kg/m ³	(GB/T 1033.1-2008)
Viscosity Average Molecular Weight	19100	g/mol	(GB/T 36214.2-2018)
Mechanical	Typical Value	Unit	Test Standard
Yield Stress	60	MPa	(GB/T 1040.1-2018)
Nominal Strain at Break	110	%	(GB/T 1040.1-2018)
Flexural Strength	95	MPa	(GB/T 9341-2008)
Izod Notched Impact Strength	65	kJ/m ²	(GB/T 1043.2-2018)
Thermal	Typical Value	Unit	Test Standard
Temperature of deflection under load (1.82 MPa)	123	°C	(GB/T 1634.2-2019)
Mould Shrinkage	0.6 ~ 0.8	%	(GB/T 39818-2021)
Vicat Softening Temperature	144	°C	(GB/T 1633-2000)
Glass Transition Temperature	147	°C	(GB/T 19466.2-2004)
Optical	Typical Value	Unit	Test Standard
Luminous Transmittance (1mm)	89	%	(GB/T 2410-2008)
CIE b* (2mm)	0 ~ 0.5		(GB/T 39822-2021)
YI (2mm)	0 ~ 1		(GB/T 39822-2021)
Flammability	Typical Value	Unit	Test Standard
Limiting Oxygen Index	27	%	(GB/T 2406.1-2008)
Index Flame Rating	V2		(GB/T 2408-2021)

