

Specifications: Polystyrene (SC201LV)

<u>Applications</u>: This polystyrene variant is utilized for producing large, transparent molded products and a range of applications including refrigerator components (like crisper trays and egg holders), toothbrushes, stationery items, ballpoint pen barrels, and medical tools such as petri dishes, tissue culture dishes, cap jars, and droppers.

Category	Property	Test Method	Test Condition	Nominal Value	Unit
Rheological	Melt Flow Index	ASTM D1238	200°C/5Kg	4.0	gm/10 min
Thermal	Vicat Softening Point	ASTM D1525	120°C/hr, 1 Kg	97	°C
	Heat Deflection Temp.	ASTM D648	1.86 Mpa	79	°C
Mechanical	Tensile Strength	ASTM D638	50 mm/min	475	kgf/cm²
	Elongation THE C	ASTM D638	50 mm/min	2.0RS GRC	% P
	Flexural Strength	ASTM D790	3.2 mm	815	kgf/cm²
	Flexural Modulus	ASTM D790	3.2 mm	32605	kgf/cm²
	Izod Impact (Notched)	ASTM D256	3.2 mm	20	J/m
Flammability	Flammability	UL 94	@1.6mm	НВ	-
General	Specific Gravity	ASTM D792	-	1.04	-
Processing Conditions	Processing Temperature	_	-	180-240	°C
	Pre-drying Temperature	-	2 Hr	50-80	°C
	Mold Temperature	-	-	40-60	°C



Specifications: Polystyrene SC201LVLT

<u>Applications</u>: This type of polystyrene is used for producing large, transparent molded items and a variety of applications including refrigerator components (like crisper trays and egg containers), toothbrushes, stationary items, ballpoint pen barrels, and medical equipment such as petri dishes, tissue culture dishes, cap jars, and droppers.

Category	Property	Test Method	Test Condition	Nominal Value	Unit
Rheological	Melt Flow Index	ASTM D1238	200°C/5Kg	4.0	gm/10 min
Thermal	Vicat Softening Point	ASTM D1525	120°C/hr, 1 Kg	97 DS CDOI	℃
	Heat Deflection Temperature	ASTM D648	1.86 Mpa	79	°C
Mechanical	Tensile Strength	ASTM D638	50 mm/min	475	kgf/cm²
	Elongation	ASTM D638	50 mm/min	2.0	%
	Flexural Strength	ASTM D790	3.2 mm	815	kgf/cm²
	Flexural Modulus	ASTM D790	3.2 mm	32605	kgf/cm²
	Izod Impact (Notched)	ASTM D256	3.2 mm	20	J/m
Flammability	Flammability	UL 94	@1.6mm	НВ	-
General	Specific Gravity	ASTM D792	-	1.04	-
Processing Conditions	Processing Temperature	-	-	180-240	°C
	Pre-drying Temperature	_	2 Hr	50-80	°C
	Mold Temperature	-	-	40-60	°C



Specifications: Polystyrene (SC202EC)

<u>Applications</u>: This polystyrene variant is perfect for clear product applications, including profile extrusion for clear and embossed sheets. It's also used in manufacturing pipettes, tablet packaging, bottles, ampule trays, and caps and closures.

Category	Property	Test Method	Test Condition	Nominal Value	Unit
Rheological	IIMIelf Hlow Index	ASTM D1238	200°C/5Kg	3.0	gm/10 min
Thermal	IIV icat Softening Point	ASTM D1525	120°C/hr, 1 Kg	104	°C
060	Heat Deflection — E C — Temperature	ASTM D648	1.86 Mpa TH	RS GRO	€ P
Mechanical	Tensile Strength	ASTM D638	50 mm/min	520	kgf/cm²
	Elongation	ASTM D638	50 mm/min	2.0	%
	Flexural Strength	ASTM D790	3.2 mm	915	kgf/cm²
	Flexural Modulus	ASTM D790	3.2 mm	34645	kgf/cm²
	Izod Impact (Notched)	ASTM D256	3.2 mm	20	J/m
Flammability	Flammability	UL 94	@1.6mm	НВ	-
General	Specific Gravity	ASTM D792	-	1.04	-
Processing Conditions	Processing Temperature	-		180-240	°C
	Pre-drying Temperature	-	2.0 Hr	50-80	°C
	Mold Temperature	-	-	40-60	°C



Specifications: Polystyrene (SC202EF)

<u>Applications</u>: This polystyrene variant is tailored for foam extrusion, making it well-suited for XPS insulation boards and food packaging applications. It's commonly used in creating food trays, hinged lunch boxes, instant noodle containers, clamshells, and bowls.

Category	Property	Test Method	Test Condition	Nominal Value	Unit
Rheological	Melt Flow Index	ASTM D1238	200°C/5Kg	4.0	gm/10 min
Thermal	Vicat Softening Point	ASTM D1525	120°C/hr, 1 Kg	104	°C
0.0	Heat Deflection HE CH. Temperature	ASTM D648	1.86 Mpa	RS GRO	$^{\circ}\mathrm{C}$
Mechanical	Tensile Strength	ASTM D638	50 mm/min	520	kgf/cm²
	Elongation	ASTM D638	50 mm/min	2.0	%
	Flexural Strength	ASTM D790	3.2 mm	915	kgf/cm²
	Flexural Modulus	ASTM D790	3.2 mm	34645	kgf/cm²
	Izod Impact (Notched)	ASTM D256	3.2 mm	20	J/m
Flammability	Flammability	UL 94	@1.6mm	НВ	_
General	Specific Gravity	ASTM D792	-	1.04	-
Processing Conditions	Processing Temperature	-	-	180-240	°C
	Pre-drying Temperature	-	2.0 Hr	50-80	°C
	Mold Temperature	-	-	-	°C



Specifications: Polystyrene (SC203EL)

<u>Applications</u>: This polystyrene type is used for audio cassette housings and covers, medical applications such as disposable infusion trays and screw vials, as well as for manufacturing crystalware, mugs, trays, bowls, pen stands, fruit bowls, service trays, and thin-walled cups. It's also ideal for providing a glossy cap layer on HIPS sheets.

Category	Property	Test Method	Test Condition	Nominal Value	Unit
Rheological	Melt Flow Index	ASTM D1238	200°C/5Kg	8.0	gm/10 min
Thermal	Vicat Softening Point	ASTM D1525	120°C/hr, 1 Kg	98	°C
	Heat Deflection Temperature	ASTM D648	1.86 Mpa	80	°C
Mechanical	Tensile Strength F	ASTM D638	50 mm/min	4755 GROI	kgf/cm²
	Elongation	ASTM D638	50 mm/min	2.0	%
	Flexural Strength	ASTM D790	3.2 mm	775	kgf/cm²
	Flexural Modulus	ASTM D790	3.2 mm	31590	kgf/cm²
	Izod Impact (Notched)	ASTM D256	3.2 mm	20	J/m
Flammability	Flammability	UL 94	@1.6mm	НВ	-
General	Specific Gravity	ASTM D792	-	1.04	-
Processing Conditions	Processing Temperature	-		180-240	°C
	Pre-drying Temperature	-	2.0 Hr	50-80	°C
	Mold Temperature	-		40-60	°C



Specifications: Polystyrene (SC206)

<u>Applications</u> Used in medical devices like blood sample collectors, test tubes, petri dishes, and PS bottles. Also utilized for crafting beads, bangles, gift articles, trays, combs, crystal ware, paperweights, and various household items.

Category	Property	Test Method	Test Condition	Nominal Value	Unit
Rheological	Melt Flow Index	ASTM D1238	200°C/5Kg	12.0	gm/10 min
Thermal	Vicat Softening Point	ASTM D1525	120°C/hr, 1 Kg	99	°C
	Heat Deflection Temperature	ASTM D648	1.86 Mpa	80	°C
Mechanical	Tensile Strength	ASTM D638	50 mm/min	465	kgf/cm²
	Elongation	ASTM D638	50 mm/min	2.0	%
	Flexural Strength	ASTM D790	3.2 mm	775	kgf/cm²
	Flexural Modulus	ASTM D790	3.2 mm	31590	kgf/cm²
	Izod Impact (Notched)	ASTM D256	3.2 mm	20	J/m
Flammability	Flammability	UL 94	@1.6mm	НВ	_
General	Specific Gravity	ASTM D792	-	1.04	_
Processing Conditions	Processing Temperature	-	-	180-240	°C
	Pre-drying Temperature	-	2.0 Hr	50-80	°C
	Mold Temperature	-	-	40-60	°C



Specifications: Polystyrene (SC206HT)

Applications: Used in medical devices such as sample collectors, test tubes, petri dishes, and PS bottles. Also applied in crafting beads, bangles, gift articles, trays, combs, crystal ware, paperweights, and various household items.

Property Category	Property	Test Method	Test Condition	Nominal Value	Unit
Rheological Properties	Melt Flow Index	ASTM D1238	200°C/5Kg	12.0	gm/10 min
Thermal Properties	Vicat Softening Point	ASTM D1525	120°C/hr, 1 Kg	99	°C
	Heat Deflection Temperature	ASTM D648	1.86 Mpa	80	°C
Mechanical Properties	Tensile Strength	ASTM D638	50 mm/min	465	kgf/cm²
	Elongation	ASTM D638	50 mm/min	2.0	%
	Flexural Strength	ASTM D790	3.2 mm	775	kgf/cm²
	Flexural Modulus	ASTM D790	3.2 mm	31590	kgf/cm²
	Izod Impact (Notched)	ASTM D256	3.2 mm	20	J/m
Flammability	Flammability	UL 94	@1.6mm	НВ	-
General Properties	Specific Gravity	ASTM D792	_	1.04	
Processing Conditions	Processing Temperature	-		180-240	°C
	Pre-drying Temperature	-	2.0 Hr	50-80	°C
	Mold Temperature	-	-	40-60	°C