HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

INEOS STYROLUTION

STYROLUTION PS 6351

High Impact Polystyrene (HIPS)

TECHNICAL DATASHEET

DESCRIPTION

INEOS STYROLUTION 6351 is a high gloss, easy-flow high impact polystyrene designed for injection applications. This grade has been specifically designed for articles requiring high glossy surfaces and good dimension stability at high temperature.

FEATURES

- High Gloss
- Easy-flow
- High impact

APPLICATIONS

- Air con
- Office Automation
- Electrical and Electronic
- Toy

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ISO 1133	g/10 min	3.5
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm^3/10 min	3.4
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m^2	10
Tensile Stress at Yield, 23 °C	ISO 527	MPa	30
Tensile Modulus	ISO 527	MPa	2100
Elongation at Break (MD)	ISO 527	%	45
Flexural Strength, 23 °C	ISO 178	MPa	50
Flexural Modulus, 23 °C	ISO 178	MPa	2100
Hardness, Rockwell	ISO 2039-2	R scale	80
Thermal Properties			
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	100
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	90
Heat Deflection Temperature A; (unannealed; 1.8 MPa)	ISO 75	°C	75
Heat Deflection Temperature B; (unannealed; 0.45 MPa)	ISO 75	°C	85
Coefficient of Linear Thermal Expansion	ISO 11359	10^{-6}/°C	90
Electrical Properties			

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Dielectric Strength, Short Time, 1.5 mm	IEC 60243-1	kV/mm	150
Surface Resistivity	IEC 62631-3-1	Ohm	$>10^{13}$
Optical Properties			
Specular Gloss, 60 °	-		70
Yellowness Index	DIN 6167	-	-8
Other Properties			
Density	ISO 1183	kg/m³	1.04
Bulk Density (without external lubricant)	-	kg/m³	0.6
Water Absorption, Saturated at 23 °C	ISO 62	%	0.07
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Drying Temperature	-	°C	70
Drying Time	-	h	2
Max Service Temperature	-	°C	240