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INEOS Styrolution 8265

INEOS Styrolution HIPS 8265, with an HB flammability rating, is suitable for extrusion molding and thermoforming processes, and is widely applied in the production of refrigerator inner liners, thermoforming sheets, food packaging including frozen food packaging, as well as various extrusion and thermoforming applications.

Physical property	Standard	Value	Unit
Density	ISO 1183	1.04	g/cm³
Shrinkage	ISO 294	0.4 ~0.7	%
Water Absorption 23°C Saturation	ISO 62	0.06	%
Melt Index 200°C 5kg	ISO 1133	3.5	g/10min
Melt Index 200°C 5kg	ISO 1133	3.1	cm³/10min
Bulk Density Without external lubricant	INTERNAL METHOD	0.6	g/cm³
Hardness	Standard	Value	Unit
Rockwell Hardness R(Scale)	ISO 2039	78	
Mechanical behavior	Standard	Value	Unit
Tensile Modulus	ISO 527	1600	MPa
Tensile Strength Yield 23°C	ISO 527	19	MPa
Elongation Flow Break	ISO 527	70	%
Flexural Strength 23°C	ISO 178	35	MPa
Flexural Modulus 23°C	ISO 178	1600	MPa
Izod Notch Impact 23°C Type A	ISO 180	13	kJ/m²
Optical performance	Standard	Value	Unit
Yellow Index	DIN 6167	-10	-
Thermal	Standard	Value	Unit
HDT Unannealed 1.8MPa	ISO 75	70	°C
HDT Unannealed 0.45MPa	ISO 75	82	°C
Vicat Softening Temperature 50°C/hr 10N	ISO 306	95	°C
Vicat Softening Temperature 50°C/hr 50N	ISO 306	83	°C
CLE	ISO 11359	0.000091	cm/cm/°C
Service Temperature Maximum	INTERNAL METHOD	240	°C
Electrical properties	Standard	Value	Unit
Surface Resistivity	IEC 62631-3-1	1E+13	Ω
Dielectric Strength 1.5mm Short Time	IEC 60243	150	KV/mm
Flammability	Standard	Value	Unit
Flame Rating 1.5mm	UL94	HB	
Extrusion molding		Value	Unit
Dry Temperature		70	°C
Dry Time		2	hr