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TOTAL 道达尔
COMMITTED TO BETTER ENERGY

Refining & Chemicals
Polymers Orient

Technical Data Sheet
High Impact Polystyrene
Manufactured in China

Description

- TOTAL POLYSTYRENE 8265 is a high impact polystyrene for extrusion/thermoforming applications that require exceptional resistance to attack from fats and oils.
- This grade has been specifically designed to display a high resistance to environmental stress cracking (ESC).

Applications

- Thermoformed Sheet
- Fridge liners
- Food and Low temperature packaging (Ice cream boxes and lids)

Properties	Method	Unit	Value (*)
Rheological			
Melt Flow Index (200°C / 5kg)	ISO 1133	g/10min	3.5
Spiral Flow (220°C)	-	cm	44
Thermal			
Vicat Softening Point 10N (T° increase = 50°C/h)	ISO 306	°C	100
Coefficient of Linear Thermal Expansion	-	mm/°C	9.1
Mechanical			
Notched Izod Impact Strength	ISO 180	kJ/m²	13
Tensile Strength at Yield	ISO 527	MPa	20
Elongation at Break	ISO 527	%	70
Flexural Modulus	ISO 178	MPa	1550
Rockwell Hardness	ISO 2039	-	R78
Electrical			
Dielectric Strength	-	kV/mm	150
Surface Resistivity	ISO IEC 93	Ohms	$>10^{13}$
Others			
Density	ISO 1183	g/cm³	1.04
Moulding Shrinkage	-	%	0.4-0.7
Water Absorption	ISO 62	%	0.06
UL 94 Class	UL 94	-	HB

(*) Data not intended for specification purposes.
**All tests have been carried out at 23°C unless otherwise stated.*
**Mechanical properties have been measured on injection molded test specimens.*
**Bulk density is approximately 0.6 g/cm^3.*

General Information

- Processing condition: Temperatures during extrusion/injection should be below 240°C.
- Recommended Pre-Dry condition: 70°C for 2 hours.