

Styrolution PS 2610

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 2610 is a General Purpose Polystyrene product. It can be processed by extrusion or thermoforming and is available in Latin America or North America. Applications of Styrolution PS 2610 include additive/masterbatch, appliances and packaging.

Characteristics include:

Good Processability

Good Toughness

General Information	
Features	General Purpose Good Flow Good Melt Strength Good Processability Good Toughness
Uses	Appliance Components Blending Packaging
Forms	Pellets
Processing Method	Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Apparent Density ¹	0.59 to 0.64	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.6	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	41.4	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Annealed)	89.4	°C	
Vicat Softening Temperature	97.8	°C	ASTM D1525 ²
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.18 mm)	20	kV/mm	ASTM D149
Dielectric Constant (1.00 mm, 1 MHz)	2.50		ASTM D150
Optical	Nominal Value	Unit	Test Method
Refractive Index ³	1.590		ASTM D542
Transmittance (550 nm)	88.0 to 90.0	%	ASTM D1003
Optical Density - 400-700 nm avg.	0.0460		
Extrusion	Nominal Value	Unit	
Melt Temperature	191 to 274	°C	
NOTE			
1.	without external lubricant		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	Sodium D line		

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