

Styrolution PS 3190/3191

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 3190/3191 is a General Purpose Polystyrene product. It can be processed by injection molding and is available in Latin America or North America. Applications of Styrolution PS 3190/3191 include kitchenware and additive/masterbatch.
Characteristics include:
Low to No Odor/Taste
Clarity

General Information			
Features	General Purpose		
	High Clarity		
	Low Odor Transfer		
	Low Taste Transfer		
Uses	Blending		
	Disposable Drinkware		
	Disposable Tableware		
Forms	Pellets		
Processing Method	Injection Molding		
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)	10	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)	44.8	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	84.1	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)	83.9	°C	
Vicat Softening Temperature	101	°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		Test Method
Refractive Index ³	1.590		ASTM D542
Optical Density - 400-700 nm avg.	0.0460		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	191 to 274	°C	
Mold Temperature	37.8 to 82.2	°C	
NOTE			
1.	without external lubricant		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	Sodium D line		

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