

Styrolution PS 5410

High Impact Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 5410 is a High Impact Polystyrene product. It can be processed by injection molding and is available in Latin America or North America. Applications of Styrolution PS 5410 include medical/healthcare, packaging and sheet. Characteristics include:
High ESCR (Stress Crack Resistant)
Impact Resistant
Low Gloss

General Information			
Features	Excellent Printability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Low Gel		
	Low Gloss		
Uses	Cosmetic Packaging		
	Medical Packaging		
	Sheet		
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)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1690	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	17.2	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1690	MPa	ASTM D790
Flexural Strength	37.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	82.8	°C	

Vicat Softening Temperature	98.9	°C	ASTM D1525 ²
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.18 mm)	16	kV/mm	ASTM D149
Dielectric Constant (1.00 mm, 1 MHz)	2.50		ASTM D150
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	15		ASTM D523
Injection	Nominal Value	Unit	
Processing (Melt) Temp	182 to 277	°C	
Mold Temperature	37.8 to 82.2	°C	
NOTE			
1.	without external lubricant		
2.	Rate B (120°C/h), Loading 1 (10 N)		

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