

Polystyrol 2710

High Impact Polystyrene

BASF Corporation

Product Description

Polystyrol 2710 is a high-impact grade of Polystyrene with improved stress crack resistance, developed for extrusion and thermoforming applications, especially for the refrigerator industry.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Food Contact Acceptable • Good Chemical Resistance	• High ESCR (Stress Crack Resist.) • High Impact Resistance	
Uses	• Appliance Components	• Food Packaging	• Liners
Agency Ratings	• BGVO Food Contact, Unspecified Rating	• FDA Food Contact, Unspecified Rating	
RoHS Compliance	• RoHS Compliant		
Forms	• Granules		
Processing Method	• Extrusion	• Injection Molding	• Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	5.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.10	%	
Equilibrium, 23°C, 50% RH	0.10	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1600	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	1.8	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	50	%	ISO 527-2/50
Flexural Strength (23°C)	32.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	120	kJ/m ²	
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	102	°C	ISO 306/A50
--	88.0	°C	ISO 306/B50

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohm·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	2.50		
23°C, 1 MHz	2.50		
Electric Strength (23°C)	160	kV/mm	IEC 60243-1

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由IDES发布, 我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
1.60 mm		HB	
3.20 mm		HB	

Additional Information

Electric Strength, IEC 60243-1, K20/P50, 23°C: 155 kV/mm
Moisture Absorption, Equilibrium, ISO 62, 23C, 50% RH: <0.1%
Surface Gloss: 10
Surface Resistivity, IEC 600903: >1E13 ohm
Volume Resistivity, IEC 600903: >1E16 ohm-m
Water Absorption, Equilibrium in Water, ISO 62, 23C: <0.1%

Injection	Nominal Value	Unit
Processing (Melt) Temp	180 to 260	°C
Mold Temperature	10.0 to 60.0	°C

Extrusion Notes

Plate Extrusion Melt Temperature: 200 to 230°C
Flat Film Extrusion Melt Temperature: 200 to 240°C

Notes

¹ Typical properties: these are not to be construed as specifications.

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