

Polystyrol 485 I

High Impact Polystyrene

BASF Corporation

Product Description

Polystyrol 485 I is a high-impact grade of polystyrene for extruded sheets with a matt surface.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Food Contact Acceptable	• High Impact Resistance	
Uses	• Food Packaging	• Sheet	
Agency Ratings	• BGVO Food Contact, Unspecified Rating	• FDA Food Contact, Unspecified Rating	
RoHS Compliance	• RoHS Compliant		
Forms	• Granules		
Processing Method	• Extrusion	• Injection Molding	• Sheet Extrusion

Physical

	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	4.00	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)	1650	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	23.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	1.6	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	35	%	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	12	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	140	kJ/m ²	
23°C	No Break		

Thermal

	Nominal Value	Unit	Test Method
Vicat Softening Temperature	87.0	°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

Flammability

	Nominal Value	Unit	Test Method
Flame Rating - UL (1.60 mm)	HB		UL 94

Optical

	Nominal Value	Unit
Gloss	12.0	

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

Notes

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

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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