

Polystyrol 486 M

High Impact Polystyrene

BASF Corporation

Product Description

Polystyrol 486 M is a normal flowing, high-impact grade that is especially suitable for blends with a high proportion of general-purpose Polystyrol (preferably Polystyrol 165 H or Polystyrol 158 K for better heat resistance). Suitable for all kinds of thermoformed packagings.

General

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

	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	%	

	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	24.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	1.5	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	35	%	ISO 527-2/50
Shear Modulus (23°C)	750	MPa	ISO 537

	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	160	kJ/m ²	
23°C	No Break		

	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	66.0	MPa	ISO 2039-1

	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	83.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	74.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	96.0	°C	ISO 306/A50
--	87.0	°C	ISO 306/B50

	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

	Nominal Value	Unit
Gloss	34.0	

	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

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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Notes

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

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