

Polystyrol 495 F

High Impact Polystyrene

BASF Corporation

Product Description

Polystyrol 495 F is a high flow, high impact polystyrene with a good heat resistance and a high stiffness.

General

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

Physical

	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	9.50	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)	2000	MPa	ASTM D638 ISO 527-2
Tensile Strength			
Yield, 23°C ²	27.0	MPa	ASTM D638
Yield, 23°C	26.0	MPa	ISO 527-2/50
Tensile Strain			
Yield, 23°C	1.5	%	ISO 527-2/50
Break, 23°C ²	40	%	ASTM D638
Nominal Tensile Strain at Break (23°C)	40	%	ISO 527-2/50
Flexural Modulus			
23°C	2000	MPa	ASTM D790
23°C	2100	MPa	ISO 178
Flexural Strength			
23°C	35.0	MPa	ASTM D790
23°C	40.0	MPa	ISO 178

Impact

	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	130	kJ/m ²	
23°C	No Break		
Notched Izod Impact (23°C)	180	J/m	ASTM D256A

Hardness

	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	74.0	MPa	ISO 2039-1

Thermal

	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	89.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	98.0	°C	ISO 306/A50
--	88.5	°C	ISO 306/B50

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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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			UL 94
1.60 mm		HB	
3.20 mm		HB	
Optical	Nominal Value	Unit	
Gloss	45.0		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	10.0 to 60.0	°C	

Notes

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

² 50 mm/min

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