

Polystyrol 576H

High Impact Polystyrene

BASF Corporation

Product Description

Polystyrol 576H is a high gloss, high impact polystyrene with good flow and good heat resistance.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Food Contact Acceptable • Good Flow • High Gloss • High Heat Resistance • High Impact Resistance
Uses	• Appliance Components • Bathroom Accessories • Housings • Kitchenware • Toys
Agency Ratings	• FDA 21 CFR 177.1640
RoHS Compliance	• RoHS Compliant
Forms	• Granules
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	5.50	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	2050	MPa	ISO 527-2
Tensile Strength			ASTM D638 ISO 527-2
Yield	33.0	MPa	
Break	33.0	MPa	
Tensile Strain			
Yield, 23°C	1.6	%	ISO 527-2/50
Break	40	%	ASTM D638
Break	30	%	ISO 527-2
Flexural Modulus	2100	MPa	ASTM D790 ISO 178
Flexural Strength	44.0	MPa	ASTM D790 ISO 178
Shear Modulus	850	MPa	ISO 6721-2

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	70	kJ/m ²	
23°C	120	kJ/m ²	
Notched Izod Impact (23°C)	98.1	J/m	ASTM D256A

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	83.0	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	88.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	78.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	98.0	°C	ASTM D1525 ² ISO 306/B50 ²
--	90.0	°C	ISO 306/A50
Melting Temperature	180 to 260	°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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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohm·cm	IEC 60093
Dielectric Constant ³ (100 Hz)	2.50		IEC 60250
Electric Strength	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	Test Method
Gloss (Untextured)	70		DIN 67530
Injection	Nominal Value	Unit	
Processing (Melt) Temp	240 to 260	°C	

Notes

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

² Rate A (50°C/h), Loading 2 (50 N)

³ 100 Hz to 1MHz

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