POLYREX® PH-888H

High Impact Polystyrene

CHI MEI CORPORATION

Message:

POLYREX® PH-888H is a High Impact Polystyrene product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Characteristics include:
Flame Rated
RoHS Compliant
Heat Resistant
Heat Stabilizer

General Information			
UL YellowCard	E56070-245789		
Additive	Heat Stabilizer		
Features	Heat Stabilized High Heat Resistance		
RoHS Compliance	RoHS Compliant		
UL File Number	E56070		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.05	g/cm³	ASTM D792
23°C	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/5.0 kg	3.8	g/10 min	ASTM D1238, ISO 1133
220°C/10.0 kg	11	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale, 6.35 mm)	63		ASTM D785
Ball Indentation Hardness (H 358/30)	81.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			
Yield, 3.18 mm [1]	29.4	MPa	ASTM D638
Yield	30.0	MPa	ISO 527-2/50
Break	30.0	MPa	ISO 527-2/50
Tensile Elongation			
Break, 3.18 mm [2]	45	%	ASTM D638
Break	58	%	ISO 527-2/50
Flexural Modulus			
6.35 mm [3]	1930	MPa	ASTM D790

-- [4]	1500	MPa	ISO 178
Flexural Strength			
6.35 mm [5]	43.1	MPa	ASTM D790
-- [6]	39.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	9.0	kJ/m^2	ISO 179
Notched Izod Impact			
23°C, 3.18 mm	100	J/m	ASTM D256
23°C, 6.35 mm	88	J/m	ASTM D256
--	8.0	kJ/m^2	ISO 180/1A
Impact Flexural Test			
Notched	8.00	kJ/m^2	ISO 179/2C
Unnotched	90.0	kJ/m^2	ISO 179/2D
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.35 mm	82.0	°C	ASTM D648
1.8 MPa, Unannealed	79.0	°C	ISO 75-2/A
1.8 MPa, Annealed	94.0	°C	ASTM D648
1.8 MPa, Annealed	96.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	102	°C	ASTM D1525, ISO 306/A50 6 [7]
--	107	°C	ISO 306/A120
--	92.0	°C	ISO 306/B50
--	95.0	°C	ISO 306/B120
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
1.50 mm, ALL	HB		
1.59 mm	HB		
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	160 to 180	°C	
Middle Temperature	185 to 205	°C	
Front Temperature	185 to 205	°C	
Nozzle Temperature	185 to 205	°C	
Mold Temperature	40.0 to 70.0	°C	
Injection Pressure	4.90 to 6.86	MPa	
Holding Pressure	3.92 to 5.88	MPa	
Back Pressure	0.490 to 1.47	MPa	
NOTE			
1.	6.0 mm/min		

2.	6.0 mm/min
3.	2.8 mm/min
4.	2.0 mm/min
5.	2.8 mm/min
6.	2.0 mm/min
7.	Rate A (50°C/h)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China