POLYREX® PH-888G

High Impact Polystyrene

CHI MEI CORPORATION

Message:

POLYREX® PH-888G 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

General Information			
UL YellowCard	E56070-245788		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.05	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	4.0	g/10 min	
220°C/10.0 kg	11	g/10 min	
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	4.00	cm³/10min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	65		ASTM D785
Ball Indentation Hardness (H 358/30)	93.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
Yield	34.0	MPa	ISO 527-2/50
Break	28.0	MPa	ISO 527-2/50
3.00 mm [1]	31.4	MPa	ASTM D638
Tensile Elongation			
Break, 3.00 mm [2]	30	%	ASTM D638
Break	50	%	ISO 527-2/50
Flexural Modulus			
6.00 mm [3]	2060	MPa	ASTM D790
-- [4]	1400	MPa	ISO 178
Flexural Strength			
6.00 mm [5]	46.1	MPa	ASTM D790
-- [6]	45.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	10	kJ/m²	ISO 179, ISO 179/2C
Charpy Unnotched Impact Strength	100	kJ/m²	ISO 179/2U
Notched Izod Impact			

23°C, 3.00 mm	93	J/m	ASTM D256
23°C, 6.00 mm	83	J/m	ASTM D256
--	9.0	kJ/m²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	82.0	°C	ASTM D648
1.8 MPa, Unannealed	79.0	°C	ISO 75-2/A
1.8 MPa, Annealed	97.0	°C	ASTM D648
1.8 MPa, Annealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	102	°C	ASTM D1525 [7]
--	100	°C	ISO 306/A50
--	105	°C	ISO 306/A120
--	91.0	°C	ISO 306/B50
--	95.0	°C	ISO 306/B120

Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm	HB		
1.60 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	190 to 210	°C
Front Temperature	185 to 205	°C
Mold Temperature	40.0 to 70.0	°C

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)

Email: sales@su-jiao.com

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

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