POLYLAC® PA-709H

CHI MEI CORPORATION - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Processing Method	• Extrusion		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.03	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	5220	psi	ISO 527-2/50
Tensile Stress (Break)	4060	psi	ISO 527-2/50
Tensile Strain (Break)	30	%	ISO 527-2/50
Flexural Modulus [2]	218000	psi	ISO 178
Flexural Stress [2]	7400	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	20	ft·lb/in²	ISO 179
Notched Izod Impact Strength	15	ft·lb/in²	ISO 180/1A
Impact Flexural Test - Notched	11.9	ft·lb/in²	ISO 179/2C
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	10900	psi	ISO 2039-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	187	°F	ISO 75-2/A
Heat Deflection Temperature (264 psi, Annealed)	205	°F	ISO 75-2/A
Vicat Softening Temperature			
--	219	°F	ISO 306/A50
--	223	°F	ISO 306/A120
--	208	°F	ISO 306/B50
--	216	°F	ISO 306/B120
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	HB		UL 94

Notes

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

[2] 0.079 in/min