



POLYLAC® PA-763

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
Features	• Good Weather Resistance	• High Heat Resistance	
RoHS Compliance	• RoHS Compliant		
Resin ID (ISO 1043)	• >ABS-FR(17)<		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.19		ASTM D792
Density (73°F)	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (200°C/5.0 kg)	2.8	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	27	cm ³ /10min	ISO 1133
Molding Shrinkage	0.30 to 0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	5600	psi	ASTM D638
Tensile Stress (Yield)	5510	psi	ISO 527-2/50
Tensile Stress (Break)	4210	psi	ISO 527-2/50
Tensile Elongation ³ (Break)	30	%	ASTM D638
Tensile Strain (Break)	15	%	ISO 527-2/50
Flexural Modulus ⁴	350000	psi	ASTM D790
Flexural Modulus ⁵	290000	psi	ISO 178
Flexural Strength ⁴	8800	psi	ASTM D790
Flexural Stress ⁵	8410	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	5.7	ft·lb/in ²	
73°F	10	ft·lb/in ²	
Notched Izod Impact			ASTM D256
73°F, 0.126 in	4.4	ft·lb/in	
73°F, 0.252 in	3.7	ft·lb/in	
Notched Izod Impact Strength			ISO 180/1A
-22°F	5.2	ft·lb/in ²	
73°F	10	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	185	°F	
Heat Deflection Temperature (264 psi, Unannealed)	187	°F	ISO 75-2/A
Deflection Temperature Under Load (264 psi, Annealed)	205	°F	ASTM D648

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Annealed)	205	°F	ISO 75-2/A
Vicat Softening Temperature	219	°F	ASTM D1525 ⁶
Vicat Softening Temperature			
--	217	°F	ISO 306/A50
--	205	°F	ISO 306/B50
CLTE - Flow	4.7E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.10 in		5VA	

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	176 to 185	°F	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	356 to 410	°F	
Middle Temperature	374 to 428	°F	
Front Temperature	374 to 428	°F	
Mold Temperature	104 to 158	°F	
Injection Pressure	711 to 1140	psi	
Holding Pressure	284 to 711	psi	
Back Pressure	71.1 to 142	psi	

Notes

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

² 23°C

³ 0.24 in/min

⁴ 0.11 in/min

⁵ 0.079 in/min

⁶ Rate A (50°C/h), Loading 1 (10 N)