

CS Hyde Company

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PRODUCT INFORMATION

44-__F ABS Film CYCOLAC™ EXABS01

	Nominal Value	Unit	Test Method
Physical			
Specific Gravity	1.03		ASTM D792
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	0.244	in ³ /10min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	6.0E-3 to 8.0E-3	in/in	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	295000	psi	ASTM D638
Tensile Strength ³ (Yield)	5700	psi	ASTM D638
Tensile Strength ³ (Break)	4200	psi	ASTM D638
Tensile Elongation ³ (Yield)	3.1	%	ASTM D638
Tensile Elongation ³ (Break)	32	%	ASTM D638
Flexural Modulus ⁴ (1.97 in Span)	305000	psi	ASTM D790
Flexural Strength ⁴ (Yield, 1.97 in Span)	9200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°F	5.2	ft·lb/in	
73°F	7.7	ft·lb/in	
Instrumented Dart Impact (73°F, Total Energy)	295	in·lb	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	200	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.126 in)	177	°F	ASTM D648
Vicat Softening Temperature	224	°F	ASTM D1525 ⁵
CLTE - Flow (-40 to 104°F)	5.6E-5	in/in/°F	ASTM E831
CLTE - Transverse (-40 to 104°F)	5.8E-5	in/in/°F	ASTM E831
RTI Elec	140	°F	UL 746
RTI Imp	140	°F	UL 746
RTI Str	140	°F	UL 746
Electrical	Nominal Value	Unit	Test Method
Arc Resistance ⁶	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 4		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 1		UL 746
Hot-wire Ignition (HWI)	PLC 4		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.0600 in)	HB		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (464°F, 100 sec ⁻¹)	1400	Pa·s	ASTM D3835

*The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.