

CS Hyde Company

39655 N IL Route 83
Lake Villa, IL 60046
Ph. 847-395-0325 Fax 847-395-0334
sales@cshyde.com / www.cshyde.com



PRODUCT INFORMATION

30-__F Halar® 500LC Film

Typical Value – Unit

Test Method

Physical

Specific Gravity	1.68	ASTM D792
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	15 to 22 g/10min	ASTM D1238
Molding Shrinkage - Flow	2.5 %	ASTM D955
Water Absorption (Equilibrium)	<0.10 %	ASTM D570

Mechanical

Tensile Modulus ¹ (23°C)	1660 MPa	ASTM D638
Yield, 23°C	30.0 MPa	
Break, 23°C	47.0 MPa	
Tensile Elongation ¹		ASTM D638
Yield, 23°C	5.0 %	
Break, 23°C	250 %	
Flexural Modulus ² (23°C)	1690 MPa	ASTM D790
Flexural Strength ² (23°C)	47.0 MPa	ASTM D790
Coefficient of Friction		ASTM D1894
Vs. Itself – Dynamic	0.20	
Vs. Itself – Static	0.20	
Taber Abrasion Resistance 1000 Cycles, 500 g, CS-17 Wheel	5.00 mg	

Impact

Notched Izod Impact		ASTM D256
-40°C, 3.20 mm	210 J/m	
23°C, 3.20 mm	No Break	

Hardness

Rockwell Hardness (R-Scale)	90	ASTM D785
Durometer Hardness (Shore D)	75	ASTM D2240

Thermal

Melting Temperature	242 °C	ASTM D3418
Brittleness Temperature	<-76.0 °C	ASTM D746A
Thermal Conductivity (40°C)	0.15 W/m/K	ASTM C177
Thermal Stability – 1% mass loss, N2	405 °C	TGA

*Flammability: Flame Rating – V-0 / UL 94

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