

Tuffak® A

Polycarbonate

Altuglas International of Arkema Inc.

Message:

Tuffak® A is a Polycarbonate (PC) product. It is available in North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E351891-101287255		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 6.35 mm)	70 to 78		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2340	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	57.9	MPa	
Ultimate	65.5	MPa	
Tensile Elongation (Yield)	100	%	ASTM D638
Flexural Modulus ¹	2340	MPa	ASTM D790
Flexural Strength ² (Yield)	103	MPa	ASTM D790
Shear Strength	40.0	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	No Break		ASTM D256
Notched Izod Impact	850	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	141	°C	
1.8 MPa, Unannealed	135	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.37 mm)	V-2		UL 94
Horizontal Burn Length Rating ³	CC1		ASTM D635
Self Ignition Temperature	1090	°C	ASTM D1929
Smoke Density	66 to 75		ASTM D2843
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ASTM D542
Transmittance (3200 µm)	85.0 to 91.0	%	ASTM D1003
Haze (3200 µm)	0.50 to 2.0	%	ASTM D1003
NOTE			
1.	2.5 mm/min		

2.	2.5 mm/min
3.	0.375 to 1 in/min

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