

Tuffak® V

Polycarbonate

Altuglas International of Arkema Inc.

Message:

Tuffak®V is a polycarbonate (PC) product. It is available in North America.

General Information			
UL YellowCard	E351891-101287253	E351891-101287254	
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Water Absorption			ASTM D570
23°C, 24 hr	0.15	%	ASTM D570
Equilibrium, 23°C	0.35	%	ASTM D570
Equilibrium, 100°C	0.58	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m, 6.35mm	74		ASTM D785
Class r, 6.35mm	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (6.35 mm)	2340	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 6.35mm	57.9	MPa	ASTM D638
Limit, 6.35mm	65.5	MPa	ASTM D638
Tensile Elongation (Yield, 6.35 mm)	100	%	ASTM D638
Flexural Modulus (6.35 mm)	2340	MPa	ASTM D790
Flexural Strength (Yield, 6.35 mm)	93.1	MPa	ASTM D790
Compressive Strength ¹ (6.35 mm)	86.2	MPa	ASTM D695
Shear Strength (6.35 mm)	40.0	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (6.35 mm)	No Break		ASTM D256
Notched Izod Impact (3.18 mm)	850	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.35mm	141	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	135	°C	ASTM D648
CLTE - Flow (6.35 mm)	6.8E-5	cm/cm/°C	ASTM D696
Specific Heat	1260	J/kg/°C	ASTM C351
Thermal Conductivity	0.19	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (3.18 mm)	15	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
6.35 mm, 60 Hz	2.90		ASTM D150
6.35 mm, 1 MHz	2.90		ASTM D150
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ASTM D542
Transmittance (6350 μm)	85.0 - 91.0	%	ASTM D1003
Haze (6.35 μm)	0.50 - 2.0	%	ASTM D1003
Additional Information			
Dielectric Strength, ASTM D149, 0.125 in thick, 25°C: 380 V/milDielectric Strength, ASTM D149, 0.125 in thick, 100°C: 450 V/mil			
NOTE			
1.	1.3 mm/min		

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