

**TRISTAR® PC-FRN-HC(V5)**

PC

Amco Polymers

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>5</b>	g/10min	ASTM D 1238
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
Mold Shrinkage, MD	<b>0.006</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>62.1</b>	MPa	ASTM D 638
Elongation at Break	<b>75</b>	%	ASTM D 638
Flexural Modulus	<b>2213</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 120</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>801</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Burning behav. 5V at thickness h	<b>5VA</b>	class	IEC 60695-11-20
Thickness tested	<b>3.0</b>	mm	-
Glow Wire Flammability Index (GWFI)	<b>960</b>	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	<b>777</b>	°C	IEC 60695-2-13
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Thickness tested	<b>1.52</b>	mm	-
Coefficient of Thermal Expansion, MD	<b>70.2</b>	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	<b>68.4</b>	E-6/K	ASTM D 696
DTUL @ 66 psi	<b>135</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>126</b>	°C	ASTM D 648
Limiting Oxygen Index	<b>38</b>	%	ASTM D 2863

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Volume Resistivity	<b>6E15</b>	Ohm*cm	ASTM D 257
Arc Resistance	<b>90</b>	s	ASTM D 495
<b>Other Standards<sup>S)</sup></b>			
Comparative tracking index	<b>325</b>	-	UL 746A

S: These properties are reported by the producer according standards that are different to our defaults.

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1230</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>121</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Melt temperature	<b>293 - 316</b>	°C	-
Mold temperature	<b>71.1 - 93.3</b>	°C	-
Zone 1	<b>265 - 285</b>	°C	-
Zone 2	<b>282 - 293</b>	°C	-
Zone 3	<b>302 - 316</b>	°C	-
Nozzle temperature	<b>282 - 303</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Injection pressure	<b>103 - 207</b>	MPa	-
Back pressure	<b>0.345 - 1.38</b>	MPa	-

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Delivery form**

Pellets

**Additives**

Release agent

**Special Characteristics**

Flame retardant, Halogen-free, High impact or impact modified, U.V. stabilized or stable to weather

**Certifications**

RoHS compliant

**Applications**

IT / Business Machine, Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa