

# Stanyl<sup>®</sup> TC155

## PA\* FR(17)

Thermal conductive material, Flame Retardant, Heat Stabilized

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage [parallel]	0.3 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	0.3 / *	%	Sim. to ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	11000 / -	MPa	ISO 527-1/-2
Stress at break	55 / -	MPa	ISO 527-1/-2
Strain at break	0.6 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	10 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	10 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	1.6 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Coeff. of linear therm. expansion (parallel)	0.25 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.25 / *	E-4/°C	ISO 11359-1/-2
Thermal conductivity in plane	5	W/(m K)	ASTM E1461
Thermal conductivity through plane	1	W/(m K)	ASTM E1461
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-

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## Property Data

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<b><i>ELECTRICAL PROPERTIES</i></b>			
Comparative tracking index	575 / –	V	IEC 60112
Relative permittivity (10GHz)	3.89 / –	–	IEC 61189-2-721
<b><i>OTHER PROPERTIES</i></b>			
Density	1620 / –	kg/m <sup>3</sup>	ISO 1183

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