

Crossfire



Product:	CROSSCOPE 5552 FRE01
Description	Halogen free flame retardant copolyester

Typical values at 23°C	Units	Method	Value
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General properties			
Density	gr/cm ³	ISO 1183	1,26
Water absorption, saturation in water at 23 °C	%	ISO 62	0,50
Moist. absorpt., saturat. in standard cond. atmo. 23 °C / 50 % r. h.	%	ISO 62	

Mechanical properties			
Tensile modulus	MPa	ISO 527-1/-2	250
Stress at yield	MPa	ISO 527-1/-3	28
Elongation at yield	%	ISO 527-1/-4	380
Flexural modulus	MPa	ISO 178	
Flexural stress at max. force	MPa	ISO 178	
Charpy impact strength +23°C	KJ/m ²	ISO 179 1eU	NB
Charpy impact strength -30°C	KJ/m ²	ISO 179 1eU	
Izod notched impact strength +23°C	KJ/m ²	ISO 180/A	NB
Izod notched impact strength -30°C	KJ/m ²	ISO 180/A	
Hardness shore D	KJ/m ²	ASTM-2240	58

Thermal properties			
Heat distortion temperature under 1.8 M Pa load (HDT A)	°C	ISO 75-1/-2	80
Temp. index after 20,000 h	°C	IEC 216-1	
Max. service temperature, up to a few hours	°C		
Specific heat	J/(kg x K)		
Melting point	°C	DIN 53765	201

Electrical properties			
Volume resistivity	Ohm x m	IEC 60093	
Surface resistivity	Ohm x m	IEC 60094	
Comparative tracking index CTI (sol. A)		IEC 60112	

Process conditions			
Melt volume rate 275/5kg	cm ³ /10 min	ISO 1133	
Melt flow index 275°C/2160 gr	gr/10 min	ISO 1133	
Melting temperature range	°C		200 -240
Mould temperature range	°C		40 - 60
Molding shrinkage	%		1,52

Flammability			
UL standard	Class	UL94	V2 (1 mm)
Glow wire test	°C	IEC 695-1	

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