Colortech S.r.l.
Compounds Materie Plastiche Masterbatches

DATA SHEET

January 2013 Edition

TECLAN® 100 FV0

Compound of Acrylonitrile-Butadiene-Styrene (ABS).

Product description	Compound of ABS, good impact resistance, high flow, flame retardant-free DBDE and DBDPE.
Application	Injection moulding.
Regulations	Comply with EU Directive 2011/65/EU (Rohs) , Regulation (EC) 1907/2006 (Reach).

Physical Properties	Method	Unit	Values
Density	ISO 1183	g/cm^3	**1,18**
Melt Flow Index MFI (220°C – 10kg)	ISO 1133	g/10min	**33**
Water absorpion (24h/ 23°C)	ASTM D570	%	**0,3**
Linear shrikage	-	%	**0,3-0,5**

Mechanical Properties	Method	Unit	Values
Notched impact strenght 23°C	ISO R180/4A	J/m	**140**
Tensile strenght at yield, 50mm/min	ISO R527-2	MPa	**37**
Tensile elongation at break, 50 mm/min	ISO R527-2	%	**-**
Flexural modulus, 15 mm/min	ISO 178	MPa	**2100**
Flexural strenght, 10 mm/min	ISO 178	MPa	**70**
Rockwell Hardness	ISO 2039/2	Scale R	**-**

Termal Properties	Method	Unit	Values
Vicat softering point	ISO 306A 120 (10N)	°C	**104**
Vicat softering point	ISO 306B 120 (50N)	°C	**96**
Heat distortion temperature HDT	ISO 75 1,82 N/mm^2	°C	**94**
Heat distortion temperature HDT	ISO 75 0,45 N/mm^2	°C	**-**

Flame Resistance	Method	Unit	Values
Flame rating 1,5 mm	UL94	Class	**V2**
Flame rating 3 mm	UL94	Class	**V0**
Glow Wire Test (GWFI)	IEC 60695-2-12	°C/mm	**850/1,5**
Glow Wire Test (GWFI)	IEC 60695-2-12	°C/mm	**960/3**

Processing Conditions	Method	Unit	Values
Cylinder temperature	-	°C	**190-220**
Mould temperature	-	°C	**30-70**
Pre-drying	-	hours/°C	**3-4 / 80**

Recommended values for not coloured products at 23°C. Some type of di pigments/dyestuffs can alter the essential characteristics included in this Data Sheet. The values carried out on test pieces produces using injection moulded, and the follow information, However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. It is the responsibility of the user to evaluate the appropriateness of the material for their application. Color Tech does not accept any liability for damage caused by customer or by a third part.

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