

Nudec PET[®] Tested For Digital Printing By Durst

Catalan producer Nudec from Barcelona has a PET (Polyethylenterephthalate-Polyester) sheet material to be used among other applications for digital printing which has now been tested at the Durst Lienz facilities. Excellent transparency, brightness and high impact strength enable the use of low thickness sheets more effectively compared to standard acrylics. The sheets are ductile and the elongation to breaking equals polycarbonates. The sheets are recyclable without any toxic emission to contaminate landfills and show good fireratings.

Technical data of the tested sheets:
PET cristal 0.7 mm/0.5mm

Properties		Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Tensile strength - yield	59	MPa	ISO 527
Tensile strength - breakage	No breakage	MPa	ISO 527
Elongation breakage	No breakage	%	ISO 527
Softening temperature (10N)	79	°C	ISO 306
Softening temperature (50N)	75	°C	ISO 306
Light transmission	89	%	ASTM D-1003
Refractive index	1.576	%	ASTM D-542

Fire resistance

Country	Code	Classification
Great Britain	BS 476: Part 7	IY
Germany	DIN 4102-1	B1
France	NFP 92-507	M2
Italy	UNI 9177	Class 1

Printing parameters

Printer	Head Media Distance	UV Lamp Intensity
Rho 700 Presto	1,5 mm	8

Adhesion after printing

		Test Method / Cross Hatch
No abrasion	5B	ASTM D-3559
No abrasion	0	ISO 2409

The technical performance of the prints show very good sharpness, adhesion and saturation. A more detailed listing of properties is accessible for Durst user at www.rho-online.com.

The typical range of application may be: displays, Point of Purchase advertisement, lighting, town furniture (anti-vandal), construction elements, signals and signs.

