APET -Technical data sheet

PHYSICAL PROPERTIES			
Properties	**Method**	**Units**	**APET**
Specific gravity	*ISO 1183*	*g/cmł*	*1,33*
Water absorption	*ISO 62*	*%*	*0,15*

MECHANICAL PROPERTIES			
Properties	**Method**	**Units**	**APET**
Tensile strength	*ISO 527*	*MPa*	*53,5*
Elongation at break	*ISO 527*	*%*	*> 100*
Tensile modulus	*ISO 527*	*MPa*	*± 2600*
Impact strength unnotched	*ISO 180*	*KJ/m¸*	*no burst*
Impact strength notched	*ISO 180*	*KJ/m¸*	*3,9*
Rockwell hardness	*DIN 2039*	*M / R*	*M80 / R114*

THERMAL PROPERTIES			
Properties	**Method**	**Units**	**APET**
Coefficient of linear expansion	*ASTM D696*	*mm/mC ‘*	*± 0,060*
Specific Heat	*DSC*	*J/gC °*	*1,13*
Heat deflection temp. (0,45 MPa)	*ISO 75*	*°C*	*70*
Heat deflection temp. (1,82 MPa)	*ISO 75*	*°C*	*67*
Vicat softening point (1 kg)	*ISO 306*	*°C*	*78*
Vicat softening point (5 kg)	*ISO 306*	*°C*	*73*

OPTICAL PROPERTIES			
Properties	**Method**	**Units**	**APET**
Light transmission	*ASTMD1003*	*%*	*82 - 89**
Haze	*ASTMD1003*	*%*	*1,9*
Gloss (60 ° angle)	*ASTMD1003*	*units*	*148*

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ELECTRICAL PROPERTIES			
Properties	**Method**	**Units**	**APET**
Surface resistivity	*ASTMD257*	*Ω*	*1*E15*
Dielectric constant (at 1 MHz)	*ASTMD150*	*~*	*3,1*
Dissipation factor (tg δ, 1 MHz)	*ASTMD150*	*~*	*0,056*
Dielectric strength (500V/sec)	*ASTMD149*	*kV/mm*	*18*
Glow wire test	*IEC 695/2.1*	*C °*	*650*

BARRIER PROPERTIES			
Properties	**Method**	**Units**	**APET**
Permeability for water vapour	*ASTMF372*	*g/mm/m²/24h*	*1,5*
Gas permeability for CO_2	*ASTMD1434*	*g/mm/m²/24h*	*28*
Gas permeability for O_2	*ASTMD3985*	*g/mm/m²/24h*	*5,1*

Temporary and limited list made to our best knowledge at this time - based upon 3 mm sheet.
The technical data concerning our products are not binding and are given for guidance only.
** Test results from 1 - 3 mm*