
ПРИЛОЖЕНИЕ А

Полезно запомнить (PDA Rule)

Direction Measured

11	Uniaxial property in material direction one
22	Uniaxial property in material direction two
33	Uniaxial property in material direction three
12	Biaxial property in material plane one-two
13	Biaxial property in material plane one-three
23	Biaxial property in material plane two-three

Attribute

T	Tension
C	Compression
B	Bearing, Brinell
F	Flexure
SB	Short Beam Shear
SP	Punch Shear
SR	Rail Shear
ST	Torsional Shear
RX	Rockwell Scale X
V	Vickers
K	Knoop
E	Extensional (Young's) Modulus
NU	Poisson Ratio
G	Shear Modulus

CTE	Coefficient of Thermal Expansion
CME	Coefficient of Moisture Expansion
CTC	Coefficient of Thermal Conductivity
CMD	Coefficient of Moisture Diffusivity
CP	Specific Heat at Constant Pressure
YS	Yield Strength
US	Ultimate Strength
UE	Ultimate Elongation
GC	Critical Energy Release Rate
KC	Fracture Toughness Coefficient
PL	Proportional Limit
K	Bulk Modulus
H	Hardness
SN	Fatigue Strength

Short, descriptive names for the attributes in the database.

Mnemonics Used in MSC Databank Products

XXX	Property Measured (1-3 letters designation)
IJ	Direction Measured (1-2 integers designation)
AA	Attribute for Direction One (1-2 letters)
KL	Secondary Direction (1-2 integers)
BB	Attribute for Direction Two (1-2 letters)

Example:

US PROPERTY measured is “ultimate strength”

11 DIRECTION is “11” indicating the fiber or one-direction

TT The ATTRIBUTE is “tensile”

Операторы запросов

<i>Operator</i>	<i>Meaning</i>	<i>Expression Type</i>
"=" or "EQ"	equal	numerical, character
">" or "GT"	greater than	numerical
"<" or "LT"	less than	numerical
">=" or "GE"	greater than or equal to	numerical
"<=" or "LE"	Less than or equal to	numerical
"LIKE"	lexically equal	character
"EX"	Exists	numerical, character
"AND"	Both must be true	numerical, character
"OR"	Either must be true	numerical, character
"NOT"	Must be false	numerical, character

Примеры запросов

E11T > 10	Young's Modulus is greater than 10
E11T > E22T	Young's Modulus in the warp direction is greater than that in the fill direction
E11T/DENS >10	Specific stiffness is greater than 10
DESIG LIKE 'AL*'	Find all aluminum alloys. (The "*" is a wildcard - the rest of the DESIG character values can be anything).
CPvsT EX	The figure of specific heat versus temperature exists.

