

(Properties minima unless stated)

Mechanical Properties									0.2% Proof Stress (hot yield stress)								
Tensile Strength (transverse)			Elongation ($L_0 = 5 d_0$) (transverse)		Impact Test (ISO-V transverse) mean value from 3 spec.				Thickness t mm	at temperature (°C)							
thickness t (mm)			thickness t (mm)		thickness t (mm)					200	250	300	350	400	450	500	
$t \leq 60$	$60 < t \leq 100$	$100 < t \leq 150$	$t \leq 60$	$60 < t \leq 150$	$t \leq 60$	$60 < t \leq 150$	≤ 60	$60 < t \leq 150$		N/mm ²							
N/mm ²			%		at 0°C		at + 20°C										
					J		J										
410	410	400	22	21	31	31	-	-	$t \leq 60$	205	185	155	140	130	125	-	
to	to	to							$60 < t \leq 100$	195	175	145	135	125	120	-	
530	530	530							$100 < t \leq 150$	185	165	135	130	120	115	-	
460	450	440	21	20	31	31	-	-	$t \leq 60$	245	225	205	175	155	135	-	
to	to	to							$60 < t \leq 100$	230	210	190	165	135	115	-	
580	570	570							$100 < t \leq 150$	215	195	175	155	135	115	-	
440	430	420	20	19	-	-	31	27	$t \leq 10$	240	220	195	185	175	170	165	
to	to	to							$10 < t \leq 40$	225	205	180	170	160	155	150	
590	580	570							$40 < t \leq 60$	210	195	170	160	150	145	140	
									$60 < t \leq 100$	200	185	160	155	145	140	135	
									$100 < t \leq 150$	190	175	150	145	140	135	130	
440	430	420	20	19	-	-	31	27	$t \leq 10$	255	245	230	215	205	195	190	
to	to	to							$10 < t \leq 40$	240	230	215	200	190	180	175	
590	580	570							$40 < t \leq 60$	230	220	205	190	180	170	165	
									$60 < t \leq 100$	220	210	195	185	175	165	160	
									$100 < t \leq 150$	210	200	185	175	170	160	155	
480	460	460	18	17	-	-	31	27	$t \leq 40$	245	240	230	215	205	195	185	
to	to	to							$40 < t \leq 60$	235	230	220	205	195	185	175	
630	630	630							$60 < t \leq 100$	225	220	210	195	185	175	165	
									$100 < t \leq 150$	215	210	200	185	175	165	155	
410	410	400	22	21	DVM transv. aged				$t \leq 60$	205	185	155	140	130	125	-	
to	to	to			-	-	27	-	$60 < t \leq 100$	195	175	145	135	125	120	-	
530	530	530			DVM transv. non-aged				$100 < t \leq 150$	185	165	135	130	120	115	-	
					31	-	-	-									

The yield stress values stated for room temperature in above table are valid as calculation characteristic values up to 50 °C.

For temperatures between 50 and 200°C, linear interpolations must be made between the values stated for room temperature and 200°C; and this should start from room temperature, from the yield stress value stated for the respective thickness in above table.