



AWP – ROHSTOFFE

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TPEE Kopel®

Properties	Method	Units	Upper molecular weight			Specialty	
			KP 3339UM	KP 3355UM	KP 3468EX	KP 3340RA	KP 3346MP
Hardness	ISO 868	Shore D	39	55	68	40	45
Specific gravity	ISO 1183	-	1,11	1,12	1,25	1,11	1,14
Mold shrinkage	ASTM D 955	%	1,33~1,34	1,54~1,63	1,69~1,78	-	-
Stress at Break	ISO 527	MPa	16,3	39,0	52,0	14,0	20,0
Strain at Break	ISO 527	%	940	1600	1400	750	430
Tensile Modulus	ISO 527	MPa	28	105	271	21	-
Tensile Stress @5% Strain @10% Strain @50% Strain	ISO 527	MPa	1,6 3,9 6,8	7,1 9,9 12,9	11,5 16,9 21,7	1,1 2,1 5,4	- - -
Flexural Modulus 23° C (73°F) 100°C (212°F)	ISO 178	MPa	75 49	316 -	650 316	- -	58 -
Charpy impact Strength -40°C 23°C 80°C	ISO 179	kJ/m ²	NB NB NB	NB NB NB	NB NB NB	NB NB NB	NB NB NB
Charpy notched impact Strength -40°C 23°C 80°C	ISO 179	kJ/m ²	NB NB NB	NB NB NB	4,3 22,8 69,8	NB NB NB	NB NB NB
Tear Strength	ISO 34-1	kN/m	94	-	200	-	-
Melting Point Onset Peak	ISO 11357-1/-3	°C	171 202	204 216	207 217	132 146	- -
Glass transition Temperature	DMA	°C	-56,7	-	26,7	-	-
Heat deflection Temperature 0,45 MPa 1,82 MPa	ISO 75	°C	51 N.A	- -	42 42	- -	- -
Vicat softening Temperature 10N	ISO 306	°C	139	-	205	-	-
Water absorption, 24 hours @24 hours, Immersion @50% relative humidity	ISO 62	%	0,57 0,18	- -	0,19 0,07	- -	- -
Melt Mass-Flow Rate Temperature Load	ISO 1133	g/10 min °C kg	28 230 2,16	26 230 2,16	18 230 2,16	32 230 2,16	9 230 2,16
Flammability	UL 94		HB	HB	HB	HB	HB

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