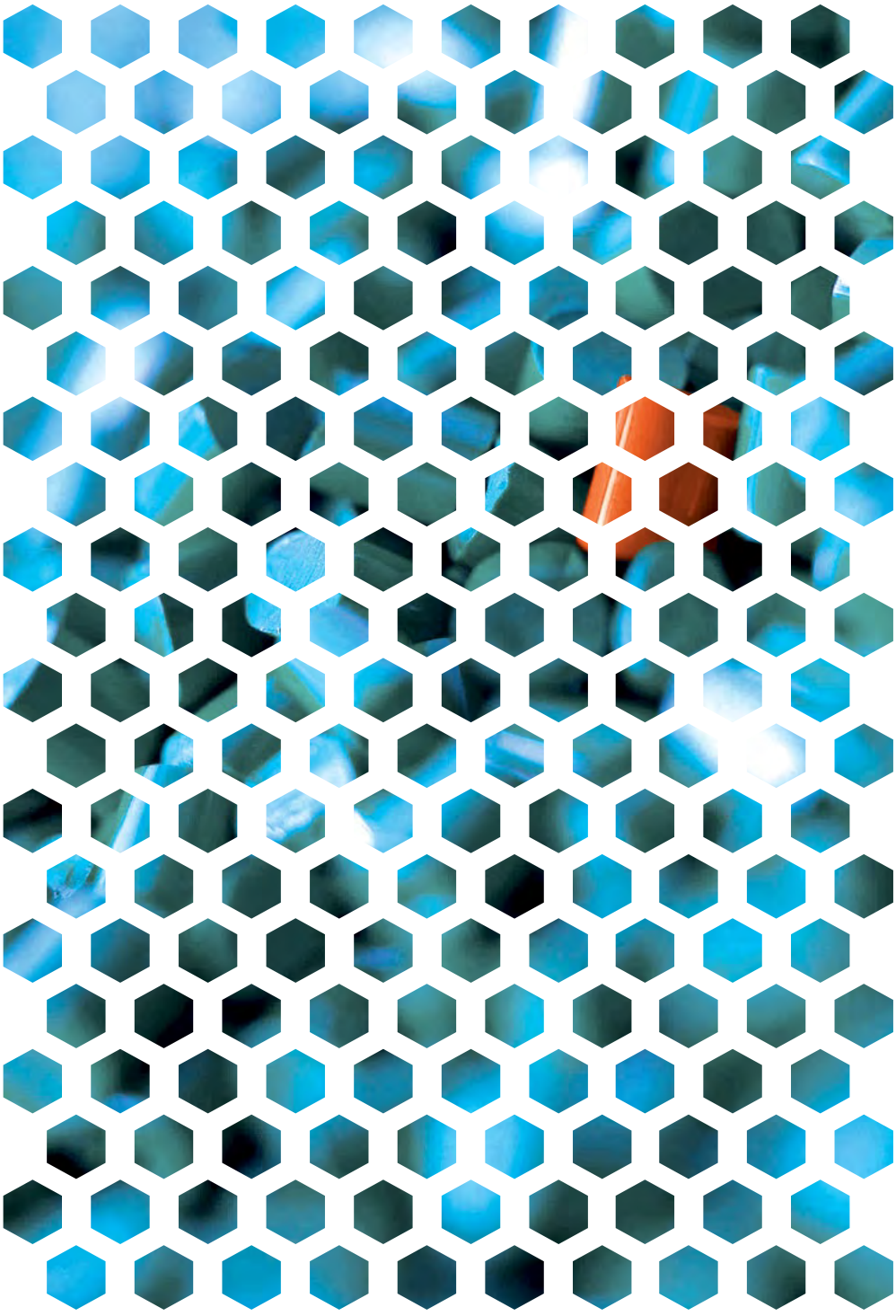

RANGE OF POLYAMIDES

Radici Plastics offers a wide range of polyamide engineering thermoplastics used in a great variety of automotive, electrical/electronics, industrial and consumer goods applications.

Our range of polyamides includes both traditional products and highly innovative specialities, such as materials suitable for continuous service at high temperatures, grades specifically designed for metal replacement and others with superior resistance to chemical agents.

		MATERIAL DESCRIPTION	TYPICAL APPLICATIONS
PA6	RADILON S HS	PA6 unfilled for injection moulding.	Standard viscosity, general purpose grade.
	RADILON S 40E	PA6 high viscosity extrusion grade. Lubricated.	Suitable for injection moulding of high thickness items.
	RADILON S HSX	PA6 injection moulding grade. Toughened.	Suitable for parts requiring improved impact resistance.
	RADILON S USZ200	PA6 injection moulding grade. Toughened.	Suitable for parts requiring excellent impact resistance, even at low temperatures.
	RADILON S RCP3010LW	PA6 30% glass fiber and mineral filler reinforced injection moulding grade. Heat stabilized.	Suitable for parts requiring improved stiffness and dimensional stability.
	RADILON S RV300W	PA6 30% glass fiber reinforced injection moulding grade. Heat stabilized.	Suitable for parts requiring high stiffness and good mechanical resistance.
	RADILON S RV350W	PA6 35% glass fiber reinforced injection moulding grade. Heat stabilized.	Suitable for parts requiring high stiffness and good mechanical resistance.
	RADILON S ERV3808K	PA6 30% glass fiber reinforced injection moulding grade. Toughened, heat stabilized.	Suitable for parts requiring improved impact strength along with high stiffness.
	RADILON S BMX200K	PA6 high viscosity blow moulding grade.	Suitable for blow-moulding of tubes and containers.
	RADILON S URV600LW	PA6 60% glass fiber reinforced injection moulding grade. Very high flowability. Heat stabilized.	Suitable for metal replacement applications.
PA6.6	RADILON A HS	PA66 unfilled for injection moulding.	Standard viscosity grade, suitable for high productivity items
	RADILON A 42K	PA66 high viscosity extrusion grade. Heat stabilized.	Suitable for injection moulding of high thickness items.
	RADILON A HSX88	PA66 injection moulding grade. Toughened.	Suitable for parts requiring improved impact resistance.
	RADILON A USZ200	PA66 injection moulding grade. Toughened.	Suitable for parts requiring excellent impact resistance, even at low temperatures.
	RADILON A RV300W	PA66 30% glass fiber reinforced injection moulding grade. Heat stabilized.	Suitable for parts requiring high stiffness and good mechanical resistance.
	RADILON A RV350W	PA66 35% glass fiber reinforced injection moulding grade. Heat stabilized.	Suitable for parts requiring high stiffness and good mechanical resistance.
	RADILON A RV500RW	PA66 50% glass fiber reinforced injection moulding grade. Heat stabilized.	Suitable for technical parts requiring very high mechanical resistance. Especially fit for metal replacement applications.
	RADILON A CF300K	PA66 30% carbon fiber reinforced injection moulding grade. Heat stabilized.	Suitable for parts requiring very high mechanical properties, higher electrical and thermal conductivity.
	RADILON A ERV130LK	PA66 13% glass fiber reinforced injection moulding grade. Toughened, heat stabilized.	Suitable for parts requiring improved impact strength along with enhanced stiffness.
	RADILON A RV350HHR	PA66 35% glass fiber reinforced injection moulding grade with enhanced thermal resistance in contact with hot air.	Suitable for continuous use at air temperatures of up to 210 °C
PA6.10	RADILON D HS	PA610 injection moulding grade. Nucleated and lubricated, fast cycling.	Suitable for injection moulded parts. This grade is partially renewably-sourced (60% of base polymer by weight).
	RADILON D RV300W	PA610, 30% glass fiber reinforced injection moulding grade. Heat stabilized.	Suitable for parts requiring high stiffness and mechanical resistance. This grade is partially renewably-sourced (60% of base polymer by weight).
	RADILON D 40EP25ZW	PA610 flexible, high viscosity extrusion grade. Toughened and plasticized.	Suitable for extrusion of pipes, profiles and cable jackets. This grade is partially renewably-sourced (60% of base polymer by weight).
	RADILON D 40P50K	PA610 flexible, high viscosity extrusion grade. Plasticized.	Suitable for extrusion of air pressure pipes. This grade is partially renewably-sourced (60% of base polymer by weight).
PA6.12	RADILON DT 40EP75W	PA612 semi-rigid, high viscosity extrusion grade. Toughened. Heat stabilized.	Suitable for extrusion of profiles, tubes and pipes.
PA-XT HIGH TEMPERATURE PA	RADILON XTREME RV350HHR	High Temperature polyamide, 35% glass fiber reinforced. Highly improved thermal resistance in contact with hot air.	Suitable for applications at continuous service temperatures of up to 220-230 °C
	RADILON XTREME RV500HHR	High Temperature polyamide, 50% glass fiber reinforced. Highly improved thermal resistance in contact with hot air.	Suitable for applications at continuous service temperatures of up to 220-230 °C
PA6/PA6.6 SELF EXSTINGUISHING	RADIFLAM S FR	PA6 flame retardant injection moulding grade. Halogen and phosphorus free.	Suitable for parts requiring fire retardancy. Rated V-0 at 0.4 mm according to UL-94.
	RADIFLAM A FR	PA66 flame retardant injection moulding grade. Halogen and phosphorus free.	Suitable for parts requiring fire retardancy. Rated V-0 at 0.4 mm according to UL-94.
	RADIFLAM A RV250K AE	PA66 flame retardant injection moulding grade. 25% glass fiber reinforced.	Suitable for parts requiring fire retardancy and good mechanical resistance. Rated V-0 according to UL-94.
	RADIFLAM A RV300 HF	PA66 flame retardant, halogen and phosphorus free injection moulding grade. 30% glass fiber reinforced.	Suitable for parts requiring fire retardancy and good mechanical resistance. Rated V-0 according to UL-94.
	RADIFLAM A RV350 AF	PA66 flame retardant injection moulding grade with red phosphorus. 35% glass fiber reinforced.	Suitable for parts requiring fire retardancy and good mechanical resistance. Rated V-0 according to UL-94.
	RADIFLAM S RV300 HF	PA6 flame retardant injection moulding grade, halogen and red phosphorus free. 30% glass fiber reinforced.	Suitable for parts requiring fire retardancy and good mechanical resistance. Good electrical insulating properties. Rated V-0 according to UL-94.

			PA6										PA6.6										PA6.10				PA6.12	PA-XT HIGH TEMPERATURE PA		PA6/PA6.6 SELF EXTINGUISHING					
			RADILON S HS	RADILON S 40E	RADILON S HSX	RADILON S USZ200	RADILON S RCP3010LW	RADILON S RV300W	RADILON S RV350W	RADILON S ERV3808K	RADILON S BMX200K	RADILON S URV600LW	RADILON A HS	RADILON A 42K	RADILON A HSX88	RADILON A USZ200	RADILON A RV300W	RADILON A RV350W	RADILON A RV500RW	RADILON A CF300K	RADILON A ERV130LK	RADILON A RV350HHR	RADILON D HS	RADILON D RV300W	RADILON D 40EP252W	RADILON D 40P50K	RADILON DT 40EP75W	RADILON XTREME RV350HHR	RADILON XTREME RV500HHR	RADIFLAM S FR	RADIFLAM A FR	RADIFLAM A RV250K AE	RADIFLAM A RV300 HF	RADIFLAM A RV350 AF	RADIFLAM S RV300 HF
TENSILE MODULUS	ISO 527-2/1A	MPa	3000/1200	3000/1150	2600/1050	1650/600	8200/6250	9600/6400	11300/7250	8500/5700	1700/700	21000/17000	3400/1300	3250/1600	2550/1400	1650/850	9900/7500	11900/8500	17400/14300	23000/14500	5000/4200	10500/7700	2600/1300	8400/7400	580/340	920/550	1380/880	10500/9500	16000/13500	3350/2450	3450/2600	9500/7300	10200/8800	10700/8050	10700/
STRESS AT BREAK/ YIELD STRESS	ISO 527-2/1A	MPa	80/45	75/42	65/40	40/20	95/65	180/115	195/120	145/85	45/22	255/185	85/55	85/60	60/40	40/25	190/130	200/150	245/190	255/180	100/75	175/125	75/50	145/125	36/33	40/30	44/34	195/140	220/180	75/45	77/50	130/85	155/120	135/105	130/
STRAIN AT BREAK/ NORMAL STRAIN AT BREAK	ISO 527-2/1A	%	50/>50	>50/>50	55/>100	>100/>100	2,9/10	3,5/8,0	3,5/6,5	3,9/5,1	>100/>100	2,3/2,6	35/>50	>50/>50	>50/>50	90/>100	3,0/6,0	3,1/4,5	2,7/3,0	2,1/2,5	6,2/17	3,7/6,5	40/>100	3,7/3,9	>100/>100	>100/>100	>300/>300	3.5/3.7	3.3/3.4	15/>50	12/>50	2.0/2.2	2.7/3.0	3.3/3.3	2.5/
YIELD STRAIN	ISO 527-2/1A	%	4/30	4,1/25	4,2/20	5,0/30	-	-	-	-	15/25	-	4,4/30	4,0/28	5,5/30	10/30	-	-	-	-	4,0/8,0	-	5,0/15	-	-	55/	18/24	-	-	3,0/20	-	-	-	-	-
FLEXURAL MODULUS	ISO 178	MPa	2600/850	2450/750	2300/	1400/	7700/	8600/	9800/	7650/	1500/	19000/14300	2900/	2900/	2100/	1400/	8800/	10500/	16450/15400	19900/	4300/	9600/7200	2400/	7500/5500	520/300	670/	1150/790	10000/9000	15500/13100	3300/	3200/	8800/	9800/	8800/7000	9500/
FLEXURAL STRENGTH	ISO 178	MPa	105/30	100/30	90/	55/	165/	265/	280/	220/	60/	400/280	110/	110/	80/	55/	280/	310/	385/305	370/	150/	275/200	95/	220/175	20/15	30/	45/30	300/215	350/290	110/	115/	170/	240/	205/150	200/
CHARPY IMPACT STRENGTH, 23°C	ISO 179/1 eU	kJ/m2	NB/NB	NB/NB	NB/NB	NB/NB	45/52	95/110	100/110	80/90	NB/NB	95/115	NB/NB	NB/NB	NB/NB	NB/NB	90/105	95/110	105/112	70/85	75/100	100/95	NB/NB	90/95	NB/NB	NB/NB	NB/NB	105/110	115/120	NB/NB	NB/NB	42/45	65/70	70/75	60/
CHARPY IMPACT STRENGTH, -30°C	ISO 179/1 eU	kJ/m2	NB/	NB/	NB/	NB/	44/	85/	90/	80/	NB/	-	NB/	NB/	NB/	NB/	75/	75/	102/	60/	40/	100/	NB/	85/	NB/	NB/	NB/	-	-	NB/	NB/	38/	70/	70/	-
CHARPY NOTCHED IMPACT STRENGTH, 23°C	ISO 179/1 eA	kJ/m2	7,5/13	7,4/15	15/65	90/130	6/8,5	15/25	18/33	24/35	90/120	20/22	6,5/15	7/7,5	47/90	100/125	13/20	14/22	18/25	7/9	11,5/15	17/20	5/9	11/13,5	95/110	20/35	45/95	15/17	20/25	4.5/5	4.5/6.5	10/12	11/14	15/18	-
CHARPY NOTCHED IMPACT STRENGTH, -30°C	ISO 179/1 eA	kJ/m2	4,5/	4,6/	10/	85/	5,1/	11/	13/	16/	25/	-	4,5/	5/	13/	80/	11/	13/	16/	5/	4,8	14/	4/	9/	55/	6/	13/	-	-	3.5/	4/	7.5/	7/	12/	-
MELTING POINT	ISO 11357-1-3	°C	220	220	220	220	220	220	220	220	220	220	260	260	260	260	260	260	260	260	260	260	217	217	215	215	210	275	275	220	260	260	260	260	220
HEAT DEFLECTION TEMPERATURE 1.8 MPA	ISO 75/2 A f	°C	60	60	60	50	200	200	205	200	55	215	70	75	55	65	240	250	255	240	175	240	55	200	50	50	50	245	-	55	70	225	220	225	190
HEAT DEFLECTION TEMPERATURE 0.45 MPA	ISO 75/2 B f	°C	170	170	160	135	210	215	215	205	90	-	200	195	170	140	250	-	-	245	230	-	-	215	-	-	-	255	255	160	200	-	255	-	-
VICAT SOFTENING TEMPERATURE	ISO 306/B50 50N	°C	190	195	185	150	210	210	210	205	-	-	240	240	210	180	250	250	255	240	235	-	185	-	-	-	-	-	-	200	220	240	240	240	210
FLAMMABILITY	UL 94	mm/class	0,8/V2	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/V2	0,8/HB	0.8/HB	0.8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/HB	0,8/V2	0,8/HB	-	-	-	0.8/HB	0.8/HB	0.4/V0	0.4/V0	0.8/V0	0.8/V0	0.8/V0	0.8/V0
DENSITY	ISO 1183	kg/m3	1140	1140	1110	1060	1330	1350	1400	1310	1070	1690	1140	1140	1100	1060	1350	1400	1580	1300	1220	1390	1080	1300	1040	1095	1050	1390	1550	1170	1160	1570	1410	1430	1440
PROCESSING			Injection moulding	Extrusion Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Extrusion Blow moulding	Injection moulding	Injection moulding	Extrusion Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Extrusion	Extrusion	Extrusion	Injection moulding	Injection moulding	Extrusion Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding	Injection moulding

Double entries refer to Dry As Moulded / Cond. RH50 (ISO 1110) conditions

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