

ARRK PDG - POLYURETHANE DATA SHEET

NAME	GP	CHT	HT		PP	PP-FL	GFN	FR	ELASTOMERS				SILICONES	
	GP	CHT	HT	UHT	PP	PP-FL	GF	FR	EL42	EL60	EL70	EL85	SR40	SR60
Tensile Strength (Mpa)	70	75	60	61	40	25	85	68	1.72	2.38	5.03	7.34	6.4	7.4
Elongation To Break	15%	9%	11%	13%	25%	100%	3%	15%	200%	235%	175%	250%	380%	350%
Flexural Strength (Mpa)	97	105	80	80	80	30	150	93					-	-
Flexural Modulus (Mpa)	2500	2100	2300	1850	1200	500	4500	2210					-	-
Shore Hardness	80D	87D	80 D	80D	76 D	70D	85D	83D	42A	60A	70A	85A	40 A	60 A
Impact Strength (kJ/m ²)	60kJ/m ²	27kJ/m ²	>60kJ/m ²	41kJ/m ²	> 50kJ/m ²		30kJ/m ²	60kJ/m ²					-	-
Thermal Test Method	Tg	Tg	Tg	Tg	Tg	Tg	Tg	Tg					-	-
Temperature (H.D.)	70°C	100°C	‡ 110°C	‡ 138°C	78°C	55°C	92°C	80°C						
Temperature (G.T)	80°C	110°C	‡ 140°C	‡ 220°C	90°C	95°C	95°C	95°C					> 200°C	> 200°C
Specific Gravity	1.15	1.06	1.14	1.19	1.15	1.08	1.25	1.30	1.03	1.03	1.05	1.06	1.10	1.1
Resin Base Colour	Opaque Clear	Clear	Black	Light Amber	Opaque Clear	Dark Beige	Off White	Solid White	Yellow / Transparent	Creamy Yellow	Creamy Yellow	Translucent Beige	Clear	Clear
Tear Strength kN/m									8.8	12.3	22.8	33.2	20	16
UV Stable		Y												
Refractive Index		1.507												
Elastic Modulus (psi)									160	190	915	2700		
Max Cast Thickness (mm)	5	10	10	5	5	5	5	10						
Min Cast Thickness (mm)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8		
Total Cure Time (Days)	3	5	4	4	3	4	4	4						
Simulates	ABS	CLEAR PC	HiTemp	HiTemp	PP-TF	PP-FL	GFN	UL94	42A	60A	70A	85A	40A Sili	60A Sili

* All values are typical average values based on standard specimens

‡ - Following Heat Treatment
 1 N/mm² = 1 MN/m² = 1/10th Mpa
 1 KJ/m² = 1 Kpa.m