CHARACTERISTICS OF **OPTICAL PLASTIC MATERIALS**

Material		Temperature Resistance °C	Density g/cm³	Refractive Index n	Abbe number
PMMA	Polymethyl methacrylate	108	1,19	1,49	57
PC	Polycarbonate	137	1,2	1,58	34
COP	Cycloolefin Polymer	136	1,01	1,53	56
COC	Cycloolefin Copolymer	127 – 150	1,02	1,53	56
SAN	Styrene Acrylonitrile	99	1,08	1,569	37
PMMI	Polymethyl methacrylimide	140	1,21	1,53	41
PC HT	Polycarbonate High Temperature	165 – 185	1,21	1,58 – 1,6	30
PSU	Polysulfone	181	1,38	1,65	23
PA-xy	Polyamide	145	1,02	1,52	52
PC high n	Polycarbonate High Refractive	125 – 135	1,25	1,66	20
PET high n	Polyester High Refractive	115 – 125	1,22	1,64	22

The table provides an initial overview of the charasteristics of optical plastic materials. The values are intended as a guide and may differ depending on the manufacturer. Depending on the application, many other factors play a role. We will support you in selecting the optimum material for your application. Please contact us!