

# PHOTOPLASTIC & PHOTOELASTIC



The materials with photoelastics properties have high flexural strength, they can withstand temperatures up to  $>82\text{ C}^{\circ}$ , we can find them in black, gray and white, and they can paint them according to your specifications.

The following materials are compatible with DLP technology.

PHOTOPLASTIC		PHOTOELASTIC							
ASTM	HIGH TEMPERATURE RESISTANT RESINS				ELASTOMERIC RESINS				
Product		3860	3955	IND147*	IND403*	IND406	8195	IND402	IND47
Colour		Black	Black	Black	Black	Black	Gray*	Black, Gray	White, Black
Packaging	1 kg bottle 5kg jerry can, *metal can	1 kg	1 kg* 5 kg*	1 kg* 5 kg*	1 kg 5 kg	1 kg 5 kg	1 kg 5 kg	1 kg 5 kg	1 kg
HDT at 0.455 (Mpa) In °C	ASTM D648	185	>300	291	82	107	-	-	-
Tensile Stress at Break (MPa)	ASTM D638 (D412')	39	65	67	67	55	3	6	3.1
Elongation at Break (%)	ASTM D638 (D412')	2	2.1	2.4	10	25	65	230	201
Young's Modulus (MPa)	ASTM D638	3,500	3,556	3,190	2,572	1,610	4	42	1.1
Flexular Modulus (MPa)	ASTM D79D	-	4,543	3,690	2,654	-	-	-	-
IZOD Impact (Noched, J/M)	ASTM D256	-	23	14.5	27	35	-	-	-
Shore Hardness	ASTM D2240	80D	84 D	94 D	80 D	79 D	68 A	73 A	57 A

## APPLICATIONS

Commercial product testing  
Functional assembly  
Public surveys  
Jewelry, art and decoration parts

Field testing  
Visual evaluation  
Aesthetic evaluation