

# PHOTOPOLYMERS



These materials have high impact resistance, some can withstand temperatures up to  $>40\text{ C}^{\circ}$ , and can be found in different colors such as gray, black, matte black, white, and clear, they have the characteristic that you can paint them according to your needs. The following materials are compatible with the DLP technology.

PHOTOPLASTIC								
ASTM		HIGH IMPACT RESINS						
Product		3172		3843			IND405'	
Colour		Gray	Clear	Matte Black*	White	Clear	Black*	Clear
Packaging	1 kg bottle 5kg jerry can, *metal can	1 kg	1 kg	1 kg 5 kg	1 kg 5 kg	1 kg 5 kg	1 kg 5 kg	1 kg 5 kg
HDT at 0.455 (Mpa) In °C	ASTM D648	51	40	60	60	63	53	43
Tensile Stress at Break (MPa)	ASTM D638 (D412')	39	38	49	49	44	45	52
Elongation at Break (%)	ASTM D638 (D412')	105	141	48	48	41	101	127
Young's Modulus (MPa)	ASTM D638	1,494	1,245	1,805	1, 720	1, 752	1, 434	1, 378
Flexular Modulus (MPa)	ASTM D79D	1,150	1,022	1,783	1, 673	1, 878	1, 181	1, 500
IZOD Impact (Noched, J/M)	ASTM D256	73	43	53	58	65	51	72
Shore Harddness	ASTM D224D	63 D	70 D	74 D	70 D	68 D	80 D	79 D

## APPLICATIONS

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

Field testing  
Visual evaluation  
Aesthetic evaluation