

DELPET® 80NH

Polymethyl Methacrylate Acrylic

Asahi Kasei Chemicals Corporation

Product Description		
Special Grade for Light Guiding Plates		
General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East	• Asia Pacific • Europe
Physical	Nominal Value Unit	Test Method
Density	1.19 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.5 g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.60 %	Internal Method
Water Absorption (Saturation, 23°C)	0.30 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3200 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	72.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	5.0 %	ISO 527-2/1A/5
Flexural Modulus	3200 MPa	ISO 178
Flexural Strength	130 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	1.3 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	20 kJ/m²	ISO 179/1eU
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature	100 °C	ISO 75-2/A
1.8 MPa, Unannealed		
Vicat Softening Temperature	109 °C	ISO 306/B50
Optical	Nominal Value Unit	Test Method
Refractive Index	1.490	ISO 489
Transmittance (Total)	92.0 %	ISO 13468-1

Notes

¹ Typical properties: these are not to be construed as specifications.