

DELPET™ 80NH

Polymethyl Methacrylate Acrylic
Asahi Kasei Chemicals Corporation

Message:
Special Grade for Light Guiding Plates

General Information			
UL YellowCard	E48285-240939		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.5	g/10 min	ISO 1133
Spiral Flow	34.0	cm	Internal Method
Molding Shrinkage	0.20 to 0.60	%	Internal Method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	98		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	5.0	%	ISO 527-2/1A/5
Flexural Modulus	3300	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.3	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	20	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	109	°C	ISO 306/B50
Heat Deflection Temperature	100	°C	ISO 75-2
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Transmittance (Total)	92.0	%	ISO 13468-1

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