Asahi **KASEI**



DELPET™ 80N

Asahi Kasei Corporation - Polymethyl Methacrylate Acrylic

Sunday, August 27, 2023

General Information					
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Material Status	Commercial: Active				
Availability	 Africa & Middle East 	Asia Pacific	• Europe		
Automotive Specifications	• SAE J576				
Forms	Pellets				

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density	1.19	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0	g/10 min	ISO 1133		
Spiral Flow ^{2, 3}	27.0	cm	Internal Method		
Molding Shrinkage	0.20 to 0.60	%	Internal Method		
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	3300	MPa	ISO 527-1/1A/1		
Tensile Stress (Break)	77.0	MPa	ISO 527-2/1A/5		
Tensile Strain (Break)	6.0	%	ISO 527-2/1A/5		
Flexural Modulus	3300	MPa	ISO 178		
Flexural Stress	130	MPa	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength	1.4	kJ/m²	ISO 179/1eA		
Charpy Unnotched Impact Strength	22	kJ/m²	ISO 179/1eU		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (M-Scale)	100		ISO 2039-2		
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		
Light Transmittance (Total)	92.0	%	ISO 13468-1		

Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific
- These data may be changed because of improvement in properties.
- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.
- Do not use plastics in any of the following orally- or medically-related applications.
- Orally-related applications: any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Corporation.
- Medically-related applications: any part, device or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids or transfusion fluids.

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

² Mold Temperature: 60°C, Melt Temperature: 250°C, Injection Pressure: 750 bar

³ Thickness: 2mm