

**Technical Data Sheet**

**Typical Applications**

- Toys, furniture, sport goods, leisure goods, Housewares, TWIM food containers
- Medium to Large paint pails
- Photovoltaic panel and automotive compounding application

**Key Characteristics**

- Nucleated Heterophasic copolymer
- Contains anti-static agent
- Excellent stiffness-impact balance with medium fluidity
- Excellent isotropic shrinkage control
- Food contact approval for specific applications (*refer to NATPET*).

Resin	Conditions	Method	Value	Unit
Density	23°C	ISO 1183	0.905	g/cm <sup>3</sup>
Melt Flow Rate (MFR)	230°C/2.16 kg	ASTM D 1238-13	21	g/10-min
<b>Mechanical</b>				
Flexural Modulus		ISO 178	1,600	MPa
Tensile Modulus	1-mm/min	ISO 527	1,550	MPa
Tensile Stress at Yield	50-mm/min	ISO 527	28	MPa
Tensile Strain at Break	50-mm/min	ISO 527	> 50	%
Tensile Strain at Yield	50-mm/min	ISO 527	5	%
	23 °C, Type 1, Edgewise	ISO 179	No Break	
Charpy Un-notched	0 °C, Type 1, Edgewise	ISO 179	125	KJ/m <sup>2</sup>
	-20 °C, Type1, Edgewise	ISO 179	100	KJ/m <sup>2</sup>
	23 °C, Type 1, Edgewise	ISO 179	7.4	KJ/m <sup>2</sup>
Charpy Notched	0 °C, Type 1, Edgewise	ISO 179	5.2	KJ/m <sup>2</sup>
	-20 °C, Type 1, Edgewise	ISO 179	4.0	KJ/m <sup>2</sup>
Izod Notched	23°C	ISO 180	6.5	kJ/m <sup>2</sup>
<b>Thermal</b>				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	111	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	150	°C

Technical information

**Note:** The above are typical data representing the product; not to be construed as analysis certificate or specifications.

For further details about **NATPET** and its products, please visit the website at [www.natpet.com](http://www.natpet.com)

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### **Special Features**

- Excellent Performance for TWIM application
- Excellent dimensional stability
- Excellent warpage control
- Broad processing window, improved fluidity at optimized molding temperatures

### **Processing Conditions**

Average extruder temperature range may be kept between 190 - 210°C.

### **Food Regulation**

This product is defined as a preparation under specific food contact regulation. Detailed information will be provided in a relevant document "Regulatory Compliances Product Declaration" upon request.

### **Storage and Handling**

Polypropylene resin should be stored to prevent a direct exposure to sunlight and heat. The Product estimated shelf life is one year starting from production date, adequate humidity below 80%, and temperature below 40°C. Customers might not fully follow the optimal storage condition, hence the shelf life recommended at customer site is six months only as received. Please refer to "**Material Safety Datasheet**" (MSDS) for handling and storage information.

### **Documents**

Legal documents, MSDS, trial reports and machine builder certificate are available on request. Please send your request to the following e-mail: [pa@natpet.com](mailto:pa@natpet.com)