

**Ramotan PU301G33BK10H**

PUR-GF33

Polyram

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	<b>30</b>	g/10min	ISO 1133
Temperature	<b>220</b>	°C	-
Load	<b>5</b>	kg	-
<b>Other Standards<sup>[S]</sup></b>			
Molding shrinkage, parallel	<b>0.1</b>	%	Producer Method
Molding shrinkage, normal	<b>0.3</b>	%	Producer Method

S: These properties are reported by the producer according standards that are different to our defaults.

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	<b>2800</b>	MPa	ISO 527
Tensile Strength	<b>80</b>	MPa	ISO 527
Yield strain	<b>12</b>	%	ISO 527
Strain at break	<b>14</b>	%	ISO 527
Flexural modulus, 23°C	<b>2400</b>	MPa	ISO 178
Flexural strength	<b>75</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>42</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>11</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>40</b>	kJ/m <sup>2</sup>	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>95</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>168</b>	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	<b>1470</b>	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>105 - 110</b>	°C	-
Pre-drying - Time	<b>2 - 4</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Mold temperature	<b>40 - 60</b>	°C	-
Feed temperature	<b>40 - 60</b>	°C	-
Zone 1	<b>200 - 220</b>	°C	-
Zone 2	<b>210 - 230</b>	°C	-
Zone 3	<b>210 - 230</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Certifications**

RoHS compliant

**Delivery form**

Black

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa