

## Polytron® P50B01 Polypropylene+LGF

### Product Description:

Polytron P50B01 is Black, 50% Long Glass Fiber Reinforced, Heat Stabilized POLYPROPYLENE, The Glass Fibers are Chemically Coupled to the Polymer Matrix, The material is supplied in pellets that are typically 12mm in length. Fiber length is the length of the pellets. Typical applications include Structural Automotive Applications such as: Automotive ,

For Under the Hood,Passengers' compartment parts Applications

### Product Information:

Characteristic	Unit	Test method	Property value
<b>Physical</b>			
Density	g/cm <sup>3</sup>	ISO 1183	1.33
Mold Shrinkage Flow 2mm	%	INTERNAL	0.1-0.15
Mold Shrinkage X Flow 2mm	%	INTERNAL	0.2-0.3
<b>Mechanical</b>			
Flexural Modulus	MPa	ISO 178	12000
Flexural Strength	MPa	ISO 178	220
Strain at Break	%	ISO 527-2/1A	1.8
Strain at Break 80C	%	ISO 527-2/1A	2.4
Tensile Modulus	MPa	ISO 527-2/1A	12500
Tensile Modulus 80C	MPa	ISO 527-2/1A	8000
Tensile Strength	MPa	ISO 527-2/1A	135
Tensile Strength 80C	MPa	ISO 527-2/1A	100
<b>Impact</b>			
Notched Charpy Impact @-40C Edgewise	kJ/m <sup>2</sup>	ISO179-1/1eA	22
Notched Charpy Impact Edgewise	kJ/m <sup>2</sup>	ISO179-1/1eA	25
Un Notched Charpy Impact @-40C Edgewise	kJ/m <sup>2</sup>	ISO179-1/1eU	55
Un Notched Charpy Impact Edgewise	kJ/m <sup>2</sup>	ISO179-1/1eU	65
<b>Thermal</b>			
HDT 0.45MPa	°C	ISO-75	158

Characteristic	Unit	Test method	Property value
HDT 1.8MPa	°C	ISO-75	157
Melting Point	°C	ISO 11357-3	168
<b>Flammability</b>			
Flammability FMVSS302	mm/min	FMVSS 302	0-100
Flammability HB 3mm		UL-94	HB

**Regulations:**

**ROHS2:** ROHS Compliance

**SVHC:** SVHC Compliance

**Molding Guide:**

**Pre Drying Temperature:** 80°C

**Pre Drying Duration:** 2-4 Hours

**Processing recommendations:**

**Recommended Mold Temperature:** 50-70°C

**Feed:** 220-240°C

**Zone 1:** 230-250°C

**Zone 2:** 230-250°C

**Zone 3:** 230-250°C

**Revision #: 1**

**Revision Date: 21 Jul 2016**

The technical data contained herein are guides to use Polyram resins. Information contained herein is to the best knowledge, true and assure. The customer is nevertheless obliged to run an incoming material control.