

RePlet 315001 - Injection Moulding Grade

Product Applications

The good balance between rigidity and toughness, aesthetics and light weight makes this grade suitable replacement for metal casting, stamping and high cost engineering polymer products for various sectors especially automotive, consumer durables, fluid engineering etc. Due to its higher modulus and impact properties this grade is used in many structural and semi-structural applications.

Description

RePlet 315001, is 50% Long Glass Fibre reinforced Nylon 66. This grade has been characterized by good rigidity and high toughness, very high HDT and other mechanical properties. This grade is presently available in natural and black colours only. However, other colours can be added.

Typical Product Characteristics

Properties	Units	Typical Value*	Test Method
Density	g/cm ³	1.56 ± 0.02	ISO 1183
Glass Content	%	50 + 2	ISO 3451
Shrinkage, Flow Direction	%	0.08 – 0.18	ISO 294
Shrinkage, Cross Flow Direction	%	0.25 – 0.35	ISO 294
Tensile Strength at Break	MPa	235	ISO 527
Elongation at Break	%	1.8	ISO 527
Tensile Modulus	MPa	18350	ISO 527
Flexural Strength	MPa	350	ISO 178
Flexural Modulus	MPa	15300	ISO 178
Notched Izod Impact Strength @ 23 ^o C	kJ/m ²	39	ISO 180
HDT @ 1.820 MPa load	^o C	258	ISO 75

* Variations within normal tolerances are possible. The testing has been carried out after conditioning for atleast 48 hours at DAM condition. The properties may differ on addition of colour or additives.

Processing Guidelines

The material should be pre dried at 80^oC - 85^oC for 3 – 4 hours to avoid moisture related problems. The recommended processing temperature is around 280 to 310^oC. For details, please consult our RePlet Material Processing Guide.

Packaging

The material is available in 25 kg standard packing bag and 40 bags per pallet.

Disclaimer: The information contained herein is accurate to the best of our knowledge but ICPL makes no guarantee or warranties of any kind are made as to its suitability for a particular application etc. The values are not intended for making mould/part design.

Corporate & Marketing Office :
SETHNA, 4th Floor, Maharshi Karve Road, Marine Lines, Mumbai -400002, India
Tel: +91-22-22090333, Fax No.: +91-22-22088988
E-Mail: msanghvi@indore.co.in Website: www.indore.co.in

Plant – I
Pithampur - 454775, M.P., India

Plant - II
Ambarnath, Maharashtra, India