IM-BASIC grey or black

Base polymer for injection moulding applications

NEXT POLYMERS

Characteristic	Test method	Test conditions	Unit	Value
Physical				
MFR (melt-flow-rate)	ISO 1133-1:2012-03	190°C / 2,16 kg	g/10 min	1,2 – 1,3
MVR (melt volume-flow rate)	ISO 1133-1:2012-03	190°C / 2,16 kg	cm^3/10 min	1,2 – 1,3
Density	ISO 1183	Ethanol	g/cm^3	0,940 – 0,960
Granulate moisture content	DIN 15512	Karl-Fischer-titration	%	< 0,1
Mechanical				
Elastic modulus	DIN EN ISO 527	23°C / 5 mm/min	MPa	500 – 600
Elongation at break	DIN EN ISO 527	23°C / 5 mm/min	MPa	> 400
Tensile strength	DIN EN ISO 527	23°C / 5 mm/min	MPa	16 – 18
Impact resistance	ISO 179	-30°C	kJ/m^2	4 – 5
PP proportion	FTIR calibrated	20°C	%	< 10

The polymer matrix contains no homogenous PP, however it does contain low quantities of CoPo PP, compatibilized with LDPE. IM-BASIC polymers are particularly suitable for mixing with low-molecular HDPE in order to increase the stiffness of the product and improve the flow behaviour. The impact bending strength can be considerably improved by mixing with a suitable TPE or compatibilizer, such as DOW Engage.

Packaging
BigBag on single-use pallet, weight approx. 1,160 kg (equates to approx. 23.2 t per truck load). Silo loading on request.

The quality of granulates made of recycled polymers is subject to variations resulting from the raw materials. Next Polymers Granulates are carefully homogenised and exhibit consistent quality during processing. The stated characteristic values are based on tests performed by a reputable Institute for Polymer Technology and serve as a guideline.

Depending upon the application, the use of additives such as odour absorbers, moisture absorbers and antioxidants may be necessary. We therefore recommend that the application characteristics of our products are investigated before they are taken into permanent use. The same applies to process management during processing.

Under these circumstances we provide no guarantee for the stated characteristic values, but ensure that they are sufficiently accurate to serve as a guide for assessing the suitability for use of the product. We furthermore refer to our quality inspections and monitoring in production and to our works test certificate. The granulates should be stored well-packaged, under dry conditions and for a period not exceeding 3 months.

Our team will be pleased to assist you should you have any questions or require further information.

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