

Table 1 — Characteristics of PE compound as granules

Characteristic	Requirement <sup>a</sup>	Test parameters		Test method
		Parameter	Value	
Compound density	≥ 930 kg/m <sup>3</sup>	Test temperature	23 °C	ISO 1183-2
		Number of samples	According to ISO 1183-2	
Carbon black content (black compound only)	(2 to 2,5) % by mass	In accordance with ISO 6964		ISO 6964
Carbon black dispersion (black compound only)	≤ grade 3	In accordance with ISO 18553 <sup>c</sup>		ISO 18553
Pigment dispersion (blue compound only)	≤ grade 3	In accordance with ISO 18553 <sup>c</sup>		ISO 18553
Water content <sup>d</sup>	≤ 300 mg/kg	Number of test pieces <sup>b</sup>	1	ISO 15512
Volatile content	≤ 350 mg/kg	Number of test pieces <sup>b</sup>	1	EN 12099
Oxidation induction time	≥ 20 min	Test temperature	200 °C <sup>e</sup>	ISO 11357-6
		Number of test pieces <sup>b</sup>	3	
Melt mass-flow rate (MFR) for PE 40	0,2 to 1,4 g/10 min Maximum deviation of ± 20 % of the nominated value <sup>f</sup>	Load	2,16 kg	ISO 1133:2005, Condition D
		Test temperature	190 °C	
		Time	10 min	
		Number of test pieces <sup>b</sup>	According to ISO 1133	
Melt mass-flow rate (MFR) for PE 63, PE 80 and PE 100	0,2 to 1,4 g/10 min Maximum deviation of ± 20 % of the nominated value <sup>f</sup>	Load	5 kg	ISO 1133:2005, Condition T
		Test temperature	190 °C	
		Time	10 min	
		Number of test pieces <sup>b</sup>	According to ISO 1133	

<sup>a</sup> Conformity to these requirements shall be proved by the compound manufacturer.

<sup>b</sup> The number of test pieces given indicates the quantity required to establish a value for the characteristic described in this table. The number of test pieces required for factory production control and process control should be listed in the manufacturer's quality plan.

<sup>c</sup> In case of dispute, the test pieces for carbon black dispersion and pigment dispersion shall be prepared by the compression method.

<sup>d</sup> Only applicable if the measured volatile content is not in conformity with its specified requirement. In case of dispute, the requirement for water content shall apply. The requirement applies to the compound producer at the stage of compound manufacturing and to the compound user at the stage of processing (if the water content exceeds the limit, drying is required prior to use).

<sup>e</sup> The test may be carried out as an indirect test at 210 °C provided there is a clear correlation to the results at 200 °C. In case of dispute, the test temperature shall be 200 °C.

<sup>f</sup> Nominated value given by the compound producer.