

## **TECHNICAL DATA SHEET**

## HDPE rocket shells regrind

Physical properties       Metric         Material and quality       HDPE rocket shells un material contamination         Shape and size       Regrind ~ 10 mm         Melt Flow Index       35,95 g/10 min (190°         Determination of the melt mass-flow rate (MFR) in accordance with LVS ENTITY         Color       Green         Density of polymer materials         Average density of the sample       0,961 g/cm³	°C, 5,00kg)
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Color Green Density of polymer materials	ISO 1133-1:2022
Density of polymer materials	
Average density of the sample 0.961 g/cm <sup>3</sup>	
The density of polymeric materials was determined in accordance with LVS	EN ISO 1183-1:2019
The immersion fluid used Ethanol (density PEtO	)H=0,806 g/cm3)
Testing temperature T=22,8°C	
The average value of the ash content of the polymer material	
The average value of the ash content 1,06%	
The ash content of the polymer material was determined in accordance with	n LVS EN ISO 3451-1:2019
Testing method Direct calcination met	thod @ 750 °C (4h)
Infrared spectroscopy	
	ctrum - see attachment Nr.1
wave figures in range from 600 – 4000 cm-1 HDPE sample spectrum	
	nple spectrum results – see
attachment Nr.2	
Differential scanning calorimetry (DSC)	
The DSC curve was taken in temperature range of from 25 °C to 400 °C with nitrogen atmosphere, flow rate - 50±5 cm3/min. See attachment Nr. 3	n heating rate 10,0 °C/min in a
Sample mass 9,14 mg	
The onset temperature of the calorimetric effect 96,72 °C	
The maximum temperature of the calorimetric 137,98 °C effect	
The end temperature of the calorimetric effect 149,89 °C	
Enthalpy of calorimetric effect -196,32 J/g	
Delivery options	
Packaging Big – bags, max 880 k	g
Delivery on pallets 1x1,2m	
One truck load (AVAILABLE)? 22-24t	



