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Technical Data Sheet

Icorene 1490 GREY 7403

Polyethylene, Linear Medium Density

Product Description

Icorene 1490 is a UV stabilised hexene linear medium density polyethylene powder. It has been developed for use as a powder in rotational moulding. This grade is a very fast processing material but also has extremely high levels of ESCR and a very wide processing window for -40C ARM impact strength. Recommended PIAT can be as low as 130C to 150C depending on the position of the thermocouple. It is suitable for use in many different applications due to its high ESCR. But it is especially good for reducing oven cycle time by up to 30%. This is done using low PIATs and can result in significantly lower energy usage heating the oven. This effect is multiplied in thicker wall section. It is easy to process with a low shrinkage tendency. Faster melting can help to distribute the material more evenly across the mould. *Icorene* 1490 is not intended for use in medical and pharmaceutical applications.

Processing Method	Rotomolding
Attribute	Good Flow; Good Moldability; Good Processability; Good Stiffness; Good Toughness; UV Resistant
Forms	Powder
Appearance	Unspecified Color
Additive	Antioxidant; UV Stabilizer
Application	Agricultural; General Purpose; Tanks

Nominal		
Value	Units	Test Method
12	g/10 min	ISO 1133
0.936	g/cm³	ISO 1183
18.0	MPa	ISO 527-2/1B
>500	hr	ASTM D1693
>1000	hr	ASTM D1693
>650	%	ISO 527-2/1B
730	MPa	ISO 178
700	MPa	ISO 527-2/1B
14	kJ/m²	ISO 179-1/1eA
>80	J	ARM
73.0	kJ/m²	ISO 8256
111	°C	ISO 306
62	°C	ISO 75-2/B
127	°C	ISO 3146
	Value 12 0.936 18.0 >500 >1000 >650 730 700 14 >80 73.0 73.0 111 62	Value Units 12 g/10 min 0.936 g/cm³ 18.0 MPa 18.0 hr >500 hr >1000 hr >650 % 730 MPa 700 MPa 14 kJ/m² >80 J 73.0 kJ/m² 111 °C 62 °C

