(+) 188 1699 6168 hongrunplastics.com

Technical Data Sheet

Icorene 1490UV NAT

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

Value 12 0.936 18.0 >500	g/10 min g/cm³ MPa	Test Method ISO 1133 ISO 1183 ISO 527-2/1B
0.936	g/cm³ MPa	ISO 1183
0.936	g/cm³ MPa	ISO 1183
18.0	MPa	
	-	ISO 527-2/1B
	-	ISO 527-2/1B
>500		
>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
62	°C	ISO 75-2/B
127	°C	ISO 3146
	>1000 >650 730 700 14 >80 73.0 62	>650 % 730 MPa 700 MPa 14 kJ/m ² >80 J 73.0 kJ/m ² 62 °C

