

# **Technical Data Sheet**

# Icorene 4220-8444G-106FDAR Yellow



High Density Polyethylene

# **Product Description**

*Icorene* 4220 is a high density polyethylene for rotational molding applications. The grade is UV stabilized and suitable for applications requiring good stiffness and processability.

Processing Method Rotomolding

Attribute Good Toughness; UV Resistant

Forms Powder

Appearance Natural Color
Additive UV Stabilizer

**Application** General Purpose; Outdoor Applications

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	1.5 to 2.5	g/10 min	ASTM D1238
Density	0.940 to 0.944	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (50 mm/min)	22.8	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Condition A, F50, 100% Igepal)	400	hr	ASTM D1693
(F50, 10% Igepal)	50.0	hr	ASTM D1693
Flexural Modulus, (1.3 mm/min, 1% Secant)	1000	MPa	ASTM D790
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	79	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>258	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (0.125 mm, Rotational Molded)	42.2	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	63.3	°C	ASTM D648

### **Notes**

These are typical property values not to be construed as specification limits.

## **Processing Techniques**

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

#### **Company Information**

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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