

# Lanufene HDI-5005

High Density Polyethylene

Ras Lanuf Oil & Gas Processing Company (RASCO)

Message:

LANUFENE HDI 5005 is a high density polyethylene resin intended for use primarily in injection molding and silane PEX pipes applications. LANUFENE HDI 5005 combines excellent stress cracking resistance (ESCR) and impact strength with low warpage, excellent gloss and good moldability. LANUFENE HDI 5005 is recommended for injection molding applications - trash box, toys, industrial parts, and shoulder of laminated tube for toothpaste where good ESCR and impact strength are needed. LANUFENE HDI 5005 can be also used for good base resin of silane XLPE (PEX) pipes application such as hot water and floor - heating pipes, portable water pipes and sanitary pipes.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Moldability		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	Low Warpage		
Uses	Consumer Applications		
	Containers		
	Piping		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	200	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	22.0	MPa	ASTM D638
Tensile Elongation (Break)	1000	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	60	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525

Injection	Nominal Value	Unit
Processing (Melt) Temp	220 to 270	°C
Extrusion	Nominal Value	Unit
Melt Temperature	180 to 230	°C

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

