

Iran Petrochemical (PCC) I3S HC 7260(THE) High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

I3 is a high density polyethylene with 1-Butene as co monomer. It has low warpage, good flowability, high density, hardness and stiffness, good impact strength, and good stress cracking resistance. Applications: injection molding, crates, engineering parts, closures. Information provided by Iran Petrochemical Commercial Co.

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http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-I3S-HC-7260THE-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 lb/in ³	ISO 1183
Melt Flow	8.0 g/10 min	8.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 Â°C	@Load 4.76 lb, Temperature 374 Â°F	
	23 g/10 min	23 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 Â°C	@Load 11.0 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ISO 868
Tensile Stress	30.0 MPa	4350 psi	at Break; ISO 527
Tensile Strength, Yield	29.0 MPa	4210 psi	ISO 527
Elongation at Break	>= 1000 %	>= 1000 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Tensile Modulus	1.35 GPa	196 ksi	ISO 527
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Softening Point	72.0 Â°C	162 Â°F	ISO 306
Brittleness Temperature	>= -80.0 Â°C	>= -112 Â°F	ASTM D746-72

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 280 Â°C	392 - 536 Â°F	

Descriptive Properties	Value	Comments
Flexural Creep Modulus (MPa)	1550	4 point, 1 min; DIN 19537-2

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China