

ICELENE HD8060U

High Density Polyethylene Injection Molding

PRODUCT DESCRIPTION

ICELENE HD8060U is certified prime high density polyethylene with a narrow molecular weight distributon, enhanced flow characteristics, good balance of stiffness and impact resistance. Suggested application cases,tote bins,crates and trays. HD8060U contains UV for outdoor applications.

Properties*	Test Method	SI Units		English	
		Typical Value	Unit	Typical Value	Unit
Melt Flow Index (190 °C/2.16 kg)	ASTM D1238	8	g/10 min.	8	g/10 min
Density (23°C)	ASTM D1505	0.960	g/cm³	0.960	g/cm³
Flexural Modulus (1 % Secant)	ASTM D790	1310	Mpa	190000	psi
Flexural Young's Modulus	ASTM D790	1410	Mpa	205000	psi
Tensile Modulus (1 % Secant)	ASTM D638	848	MPa	123000	psi
Tensile Young's Modulus	ASTM D638	1010	MPa	146000	psi
Tensile Strenght at Break, (23°C)	ASTM D638	15.9	MPa	2300	psi
Tensile Stress at Yield,(23°C)	ASTM D638	29.3	MPa	4250	psi
Tensile Elongation at Break, (23°C)	ASTM D638	380	%	380	%
Tensile Elongation at Yield, (23°C)	ASTM D638	11	%	11	%
Notched Izod Impact Strength, (23°C)	ASTM D256	75	J/m	1.4	ft-lb/in
Unnotched Impact Strength, (-18°C)	STM D4812	No Break		No Break	
Shore Hardness (Shore D, max)	ASTM D2240	70		70	
Vicat softening Temperature	ASTM D1525	129	°C	264	°F
Low Temperature Brittleness, F50	ASTM D746	<-76	°C	<-105	°F
Deflection Temperature under Load, 66 psi Unannealead	ASTM D648	80	°C	176	°F
Melting Temperature	ASTM D3418	132.7	°C	270.9	°F
Crystallization Temperature	ASTM D3418	115.9	°C	240.6	°F

The nominal properties reported herin are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

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