

ICELENE HD8060U

High Density Polyethylene Injection Molding

PRODUCT DESCRIPTION

ICELENE HD8060U is a narrow molecular weight distribution homopolymer with enhanced flow characteristics and 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	8-8.8	g/10 min.	8-8.8	g/10 min
Density (23°C)	ASTM D1505	0.960-0.964	g/cm ³	0.960-0.964	g/cm ³
Tensile Modulus (1 % Secant)	ASTM D638	848	MPa	123000	psi
Tensile Young's Modulus	ASTM D638	1010	MPa	146000	psi
Tensile Strength 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 Unannealed	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 herein 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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